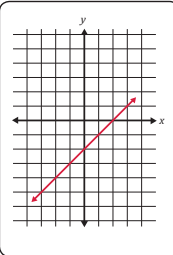
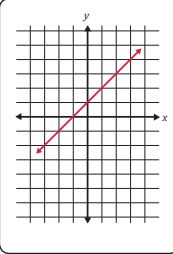
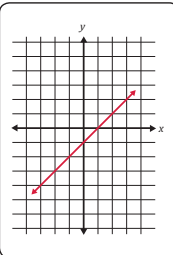
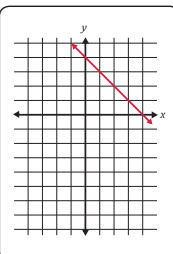
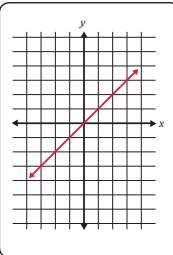
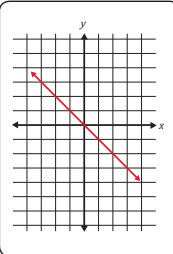
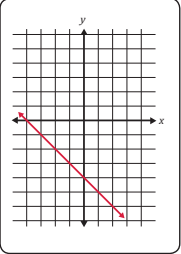
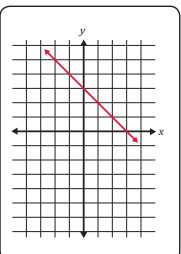
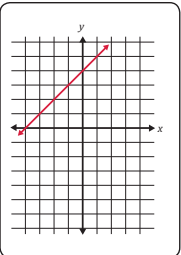


# The Algebra Game: Linear Graphs Matching Card Sets

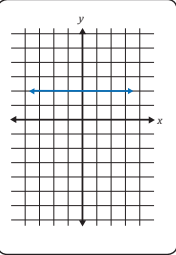
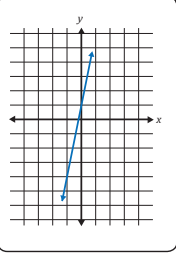
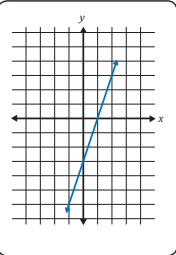
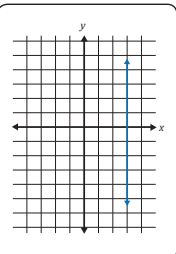
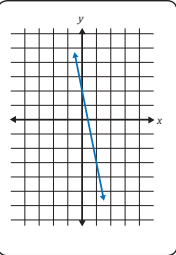
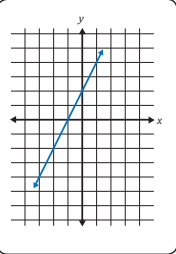
Deck A																	
Graph	Slope	y-intercept	Equation	Standard Form	Coordinate Pair												
	$m = +1$ slope $1 + = w$	$b = -2$ y-intercept $2 - = q$	$y = +x - 2$ equation $2 - x + = \ell$	$x - y - 2 = 0$ standard form $0 = 2 - \ell - x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-4</td></tr> <tr><td>-1</td><td>-3</td></tr> <tr><td>0</td><td>-2</td></tr> <tr><td>1</td><td>-1</td></tr> <tr><td>2</td><td>0</td></tr> </table>	x	y	-2	-4	-1	-3	0	-2	1	-1	2	0
x	y																
-2	-4																
-1	-3																
0	-2																
1	-1																
2	0																
	$m = +1$ slope $1 + = w$	$b = +1$ y-intercept $1 + = q$	$y = +x + 1$ equation $1 + x + = \ell$	$x - y + 1 = 0$ standard form $0 = 1 + \ell - x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-1</td></tr> <tr><td>-1</td><td>0</td></tr> <tr><td>0</td><td>1</td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>3</td></tr> </table>	x	y	-2	-1	-1	0	0	1	1	2	2	3
x	y																
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	$m = +1$ slope $1 + = w$	$b = -1$ y-intercept $1 - = q$	$y = +x - 1$ equation $1 - x + = \ell$	$x - y - 1 = 0$ standard form $0 = 1 - \ell - x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-3</td></tr> <tr><td>-1</td><td>-2</td></tr> <tr><td>0</td><td>-1</td></tr> <tr><td>1</td><td>0</td></tr> <tr><td>2</td><td>1</td></tr> </table>	x	y	-2	-3	-1	-2	0	-1	1	0	2	1
x	y																
-2	-3																
-1	-2																
0	-1																
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2	1																
	$m = -1$ slope $1 - = w$	$b = +4$ y-intercept $4 + = q$	$y = -x + 4$ equation $4 + x - = \ell$	$x + y - 4 = 0$ standard form $0 = 4 - \ell + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>6</td></tr> <tr><td>-1</td><td>5</td></tr> <tr><td>0</td><td>4</td></tr> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>2</td></tr> </table>	x	y	-2	6	-1	5	0	4	1	3	2	2
x	y																
-2	6																
-1	5																
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1	3																
2	2																
	$m = +1$ slope $1 + = w$	$b = 0$ y-intercept $0 = q$	$y = +x$ equation $x + = \ell$	$x - y = 0$ standard form $0 = \ell - x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-2</td></tr> <tr><td>-1</td><td>-1</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> </table>	x	y	-2	-2	-1	-1	0	0	1	1	2	2
x	y																
-2	-2																
-1	-1																
0	0																
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	$m = -1$ slope $1 - = w$	$b = 0$ y-intercept $0 = q$	$y = -x$ equation $x - = \ell$	$x + y = 0$ standard form $0 = \ell + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>2</td></tr> <tr><td>-1</td><td>1</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>-1</td></tr> <tr><td>2</td><td>-2</td></tr> </table>	x	y	-2	2	-1	1	0	0	1	-1	2	-2
x	y																
-2	2																
-1	1																
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2	-2																

# The Algebra Game: Linear Graphs Matching Card Sets

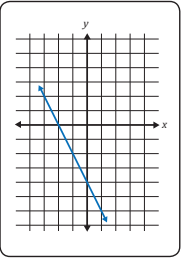
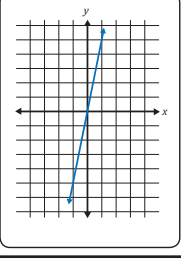
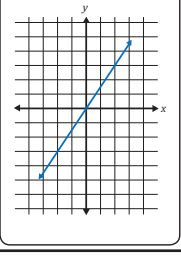
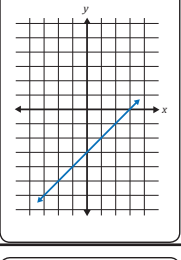
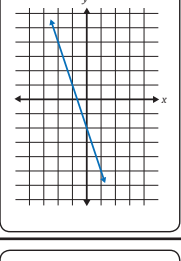
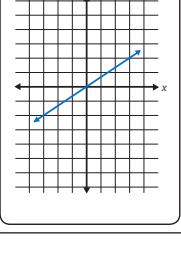
Deck A (continued)																	
Graph	Slope	y-intercept	Equation	Standard Form	Coordinate Pair												
	$m = -1$ slope $l = -u$	$b = -1$ y-intercept $l = -q$	$y = -x - 1$ equation $l - x = -l$	$x + y + 1 = 0$ standard form $0 = l + l + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>1</td></tr> <tr><td>-1</td><td>0</td></tr> <tr><td>0</td><td>-1</td></tr> <tr><td>1</td><td>-2</td></tr> <tr><td>2</td><td>-3</td></tr> </table>	x	y	-2	1	-1	0	0	-1	1	-2	2	-3
x	y																
-2	1																
-1	0																
0	-1																
1	-2																
2	-3																
	$m = -1$ slope $l = -u$	$b = -4$ y-intercept $h = -q$	$y = -x - 4$ equation $h - x = -l$	$x + y + 4 = 0$ standard form $0 = h + l + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-2</td></tr> <tr><td>-1</td><td>-3</td></tr> <tr><td>0</td><td>-4</td></tr> <tr><td>1</td><td>-5</td></tr> <tr><td>2</td><td>-6</td></tr> </table>	x	y	-2	-2	-1	-3	0	-4	1	-5	2	-6
x	y																
-2	-2																
-1	-3																
0	-4																
1	-5																
2	-6																
	$m = -1$ slope $l = -u$	$b = -2$ y-intercept $z = -q$	$y = -x - 2$ equation $z - x = -l$	$x + y + 2 = 0$ standard form $0 = z + l + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>0</td></tr> <tr><td>-1</td><td>-1</td></tr> <tr><td>0</td><td>-2</td></tr> <tr><td>1</td><td>-3</td></tr> <tr><td>2</td><td>-4</td></tr> </table>	x	y	-2	0	-1	-1	0	-2	1	-3	2	-4
x	y																
-2	0																
-1	-1																
0	-2																
1	-3																
2	-4																
	$m = -1$ slope $l = -u$	$b = +3$ y-intercept $ε = +q$	$y = -x + 3$ equation $ε + x = -l$	$x + y - 3 = 0$ standard form $0 = ε - l + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>5</td></tr> <tr><td>-1</td><td>4</td></tr> <tr><td>0</td><td>3</td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>1</td></tr> </table>	x	y	-2	5	-1	4	0	3	1	2	2	1
x	y																
-2	5																
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0	3																
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	$m = +1$ slope $l = +u$	$b = +4$ y-intercept $h = +q$	$y = +x + 4$ equation $h + x = +l$	$x - y + 4 = 0$ standard form $0 = h + l - x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>2</td></tr> <tr><td>-1</td><td>3</td></tr> <tr><td>0</td><td>4</td></tr> <tr><td>1</td><td>5</td></tr> <tr><td>2</td><td>6</td></tr> </table>	x	y	-2	2	-1	3	0	4	1	5	2	6
x	y																
-2	2																
-1	3																
0	4																
1	5																
2	6																
	$m = -1$ slope $l = -u$	$b = +1$ y-intercept $l = +q$	$y = -x + 1$ equation $l + x = -l$	$x + y - 1 = 0$ standard form $0 = l - l + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>3</td></tr> <tr><td>-1</td><td>2</td></tr> <tr><td>0</td><td>1</td></tr> <tr><td>1</td><td>0</td></tr> <tr><td>2</td><td>-1</td></tr> </table>	x	y	-2	3	-1	2	0	1	1	0	2	-1
x	y																
-2	3																
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0	1																
1	0																
2	-1																

# The Algebra Game: Linear Graphs Matching Card Sets

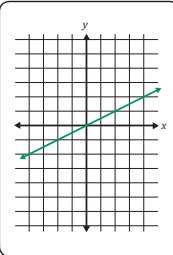
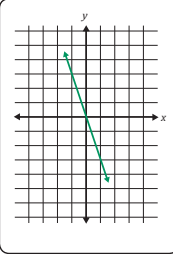
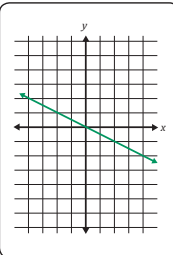
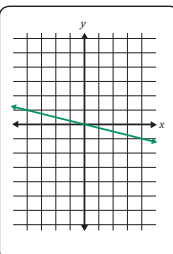
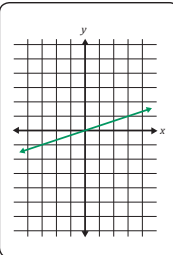
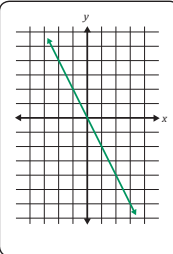
## Deck B

Graph	Slope	y-intercept	Equation	Standard Form	Coordinate Pair												
	$m = 0$ slope $0 = w$	$b = +2$ y-intercept $2 = q$	$y = +2$ equation $2 = y$	$y - 2 = 0$ standard form $0 = y - 2$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>2</td></tr> <tr><td>-1</td><td>2</td></tr> <tr><td>0</td><td>2</td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>2</td></tr> </table>	x	y	-2	2	-1	2	0	2	1	2	2	2
x	y																
-2	2																
-1	2																
0	2																
1	2																
2	2																
	$m = +5$ slope $5 = w$	$b = +1$ y-intercept $1 = q$	$y = 5x + 1$ equation $1 + 5x = y$	$5x - y + 1 = 0$ standard form $0 = 1 - y + 5x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-9</td></tr> <tr><td>-1</td><td>-4</td></tr> <tr><td>0</td><td>1</td></tr> <tr><td>1</td><td>6</td></tr> <tr><td>2</td><td>11</td></tr> </table>	x	y	-2	-9	-1	-4	0	1	1	6	2	11
x	y																
-2	-9																
-1	-4																
0	1																
1	6																
2	11																
	$m = +3$ slope $3 = w$	$b = -3$ y-intercept $-3 = q$	$y = 3x - 3$ equation $3 - 3x = y$	$3x - y - 3 = 0$ standard form $0 = 3 - y - 3x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-9</td></tr> <tr><td>-1</td><td>-6</td></tr> <tr><td>0</td><td>-3</td></tr> <tr><td>1</td><td>0</td></tr> <tr><td>2</td><td>3</td></tr> </table>	x	y	-2	-9	-1	-6	0	-3	1	0	2	3
x	y																
-2	-9																
-1	-6																
0	-3																
1	0																
2	3																
	$m$ is undefined slope $m$ is undefined	does not cross y-axis y-intercept does not cross y-axis	$x = +3$ equation $3 = x$	$x - 3 = 0$ standard form $0 = 3 - x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>3</td><td>-2</td></tr> <tr><td>3</td><td>-1</td></tr> <tr><td>3</td><td>0</td></tr> <tr><td>3</td><td>1</td></tr> <tr><td>3</td><td>2</td></tr> </table>	x	y	3	-2	3	-1	3	0	3	1	3	2
x	y																
3	-2																
3	-1																
3	0																
3	1																
3	2																
	$m = -5$ slope $-5 = w$	$b = +2$ y-intercept $2 = q$	$y = -5x + 2$ equation $2 - 5x = y$	$5x + y - 2 = 0$ standard form $0 = 2 - y + 5x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>12</td></tr> <tr><td>-1</td><td>7</td></tr> <tr><td>0</td><td>2</td></tr> <tr><td>1</td><td>-3</td></tr> <tr><td>2</td><td>-8</td></tr> </table>	x	y	-2	12	-1	7	0	2	1	-3	2	-8
x	y																
-2	12																
-1	7																
0	2																
1	-3																
2	-8																
	$m = +2$ slope $2 = w$	$b = +2$ y-intercept $2 = q$	$y = 2x + 2$ equation $2 + 2x = y$	$2x - y + 2 = 0$ standard form $0 = 2 - y + 2x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-2</td></tr> <tr><td>-1</td><td>0</td></tr> <tr><td>0</td><td>2</td></tr> <tr><td>1</td><td>4</td></tr> <tr><td>2</td><td>6</td></tr> </table>	x	y	-2	-2	-1	0	0	2	1	4	2	6
x	y																
-2	-2																
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2	6																

# The Algebra Game: Linear Graphs Matching Card Sets

Deck B (continued)																	
Graph	Slope	y-intercept	Equation	Standard Form	Coordinate Pair												
	$m = -2$ slope $z - = w$	$b = -4$ y-intercept $4 - = q$	$y = -2x - 4$ equation $4 - xz - = y$	$2x + y + 4 = 0$ standard form $0 = 4 + y + xz$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>0</td></tr> <tr><td>-1</td><td>-2</td></tr> <tr><td>0</td><td>-4</td></tr> <tr><td>1</td><td>-6</td></tr> <tr><td>2</td><td>-8</td></tr> </table>	x	y	-2	0	-1	-2	0	-4	1	-6	2	-8
x	y																
-2	0																
-1	-2																
0	-4																
1	-6																
2	-8																
	$m = +5$ slope $5 + = w$	$b = 0$ y-intercept $0 = q$	$y = 5x$ equation $x5 = y$	$5x - y = 0$ standard form $0 = y - 5x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-10</td></tr> <tr><td>-1</td><td>-5</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>5</td></tr> <tr><td>2</td><td>10</td></tr> </table>	x	y	-2	-10	-1	-5	0	0	1	5	2	10
x	y																
-2	-10																
-1	-5																
0	0																
1	5																
2	10																
	$m = +\frac{3}{2}$ slope $\frac{z}{3} + = w$	$b = 0$ y-intercept $0 = q$	$y = +\frac{3}{2}x$ equation $x\frac{z}{3} + = y$	$3x - 2y = 0$ standard form $0 = yz - x3$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-3</td></tr> <tr><td>-1</td><td>-1½</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>1½</td></tr> <tr><td>2</td><td>3</td></tr> </table>	x	y	-2	-3	-1	-1½	0	0	1	1½	2	3
x	y																
-2	-3																
-1	-1½																
0	0																
1	1½																
2	3																
	$m = +1$ slope $1 + = w$	$b = -3$ y-intercept $3 - = q$	$y = x - 3$ equation $3 - x = y$	$x - y - 3 = 0$ standard form $0 = 3 - y - x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-5</td></tr> <tr><td>-1</td><td>-4</td></tr> <tr><td>0</td><td>-3</td></tr> <tr><td>1</td><td>-2</td></tr> <tr><td>2</td><td>-1</td></tr> </table>	x	y	-2	-5	-1	-4	0	-3	1	-2	2	-1
x	y																
-2	-5																
-1	-4																
0	-3																
1	-2																
2	-1																
	$m = -3$ slope $3 - = w$	$b = -2$ y-intercept $2 - = q$	$y = -3x - 2$ equation $2 - x3 - = y$	$3x + y + 2 = 0$ standard form $0 = 2 + y + x3$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>4</td></tr> <tr><td>-1</td><td>1</td></tr> <tr><td>0</td><td>-2</td></tr> <tr><td>1</td><td>-5</td></tr> <tr><td>2</td><td>-8</td></tr> </table>	x	y	-2	4	-1	1	0	-2	1	-5	2	-8
x	y																
-2	4																
-1	1																
0	-2																
1	-5																
2	-8																
	$m = +\frac{2}{3}$ slope $\frac{3}{2} + = w$	$b = 0$ y-intercept $0 = q$	$y = +\frac{2}{3}x$ equation $x\frac{3}{2} + = y$	$2x - 3y = 0$ standard form $0 = 3y - 2x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-1½</td></tr> <tr><td>-1</td><td>-⅔</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>⅔</td></tr> <tr><td>2</td><td>1½</td></tr> </table>	x	y	-2	-1½	-1	-⅔	0	0	1	⅔	2	1½
x	y																
-2	-1½																
-1	-⅔																
0	0																
1	⅔																
2	1½																

# The Algebra Game: Linear Graphs Matching Card Sets

Deck C																	
Graph	Slope	y-intercept	Equation	Standard Form	Coordinate Pair												
	$m = +\frac{1}{2}$ slope $\frac{z}{1} + = u$	$b = 0$ y-intercept $0 = q$	$y = +\frac{1}{2}x$ equation $x \frac{z}{1} + = \mathcal{L}$	$-x + 2y = 0$ standard form $0 = \mathcal{L}z + x-$	coordinate pairs <table border="1" data-bbox="1364 336 1453 514"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-1</td></tr> <tr><td>-1</td><td><math>-\frac{1}{2}</math></td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td><math>\frac{1}{2}</math></td></tr> <tr><td>2</td><td>1</td></tr> </table>	x	y	-2	-1	-1	$-\frac{1}{2}$	0	0	1	$\frac{1}{2}$	2	1
x	y																
-2	-1																
-1	$-\frac{1}{2}$																
0	0																
1	$\frac{1}{2}$																
2	1																
	$m = -3$ slope $\xi - = u$	$b = 0$ y-intercept $0 = q$	$y = -3x$ equation $x\xi - = \mathcal{L}$	$3x + y = 0$ standard form $0 = \mathcal{L} + x\xi$	coordinate pairs <table border="1" data-bbox="1364 609 1453 787"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>6</td></tr> <tr><td>-1</td><td>3</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>-3</td></tr> <tr><td>2</td><td>-6</td></tr> </table>	x	y	-2	6	-1	3	0	0	1	-3	2	-6
x	y																
-2	6																
-1	3																
0	0																
1	-3																
2	-6																
	$m = -\frac{1}{2}$ slope $\frac{z}{1} - = u$	$b = 0$ y-intercept $0 = q$	$y = -\frac{1}{2}x$ equation $x \frac{z}{1} - = \mathcal{L}$	$x + 2y = 0$ standard form $0 = \mathcal{L}z + x$	coordinate pairs <table border="1" data-bbox="1364 882 1453 1060"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>1</td></tr> <tr><td>-1</td><td><math>\frac{1}{2}</math></td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td><math>-\frac{1}{2}</math></td></tr> <tr><td>2</td><td>-1</td></tr> </table>	x	y	-2	1	-1	$\frac{1}{2}$	0	0	1	$-\frac{1}{2}$	2	-1
x	y																
-2	1																
-1	$\frac{1}{2}$																
0	0																
1	$-\frac{1}{2}$																
2	-1																
	$m = -\frac{1}{4}$ slope $\frac{z}{1} - = u$	$b = 0$ y-intercept $0 = q$	$y = -\frac{1}{4}x$ equation $x \frac{z}{1} - = \mathcal{L}$	$x + 4y = 0$ standard form $0 = \mathcal{L}z + x$	coordinate pairs <table border="1" data-bbox="1364 1155 1453 1333"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td><math>\frac{1}{2}</math></td></tr> <tr><td>-1</td><td><math>\frac{1}{4}</math></td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td><math>-\frac{1}{4}</math></td></tr> <tr><td>2</td><td><math>-\frac{1}{2}</math></td></tr> </table>	x	y	-2	$\frac{1}{2}$	-1	$\frac{1}{4}$	0	0	1	$-\frac{1}{4}$	2	$-\frac{1}{2}$
x	y																
-2	$\frac{1}{2}$																
-1	$\frac{1}{4}$																
0	0																
1	$-\frac{1}{4}$																
2	$-\frac{1}{2}$																
	$m = +\frac{1}{3}$ slope $\frac{\xi}{1} + = u$	$b = 0$ y-intercept $0 = q$	$y = +\frac{1}{3}x$ equation $x \frac{\xi}{1} + = \mathcal{L}$	$-x + 3y = 0$ standard form $0 = \mathcal{L}\xi + x-$	coordinate pairs <table border="1" data-bbox="1364 1428 1453 1606"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td><math>-\frac{2}{3}</math></td></tr> <tr><td>-1</td><td><math>-\frac{1}{3}</math></td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td><math>\frac{1}{3}</math></td></tr> <tr><td>2</td><td><math>\frac{2}{3}</math></td></tr> </table>	x	y	-2	$-\frac{2}{3}$	-1	$-\frac{1}{3}$	0	0	1	$\frac{1}{3}$	2	$\frac{2}{3}$
x	y																
-2	$-\frac{2}{3}$																
-1	$-\frac{1}{3}$																
0	0																
1	$\frac{1}{3}$																
2	$\frac{2}{3}$																
	$m = -2$ slope $z - = u$	$b = 0$ y-intercept $0 = q$	$y = -2x$ equation $xz - = \mathcal{L}$	$2x + y = 0$ standard form $0 = \mathcal{L} + 2x$	coordinate pairs <table border="1" data-bbox="1364 1701 1453 1879"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>4</td></tr> <tr><td>-1</td><td>2</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>-2</td></tr> <tr><td>2</td><td>-4</td></tr> </table>	x	y	-2	4	-1	2	0	0	1	-2	2	-4
x	y																
-2	4																
-1	2																
0	0																
1	-2																
2	-4																

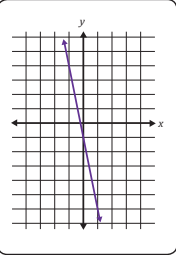
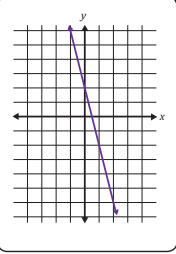
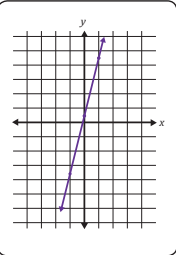
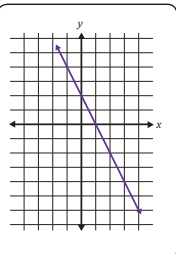
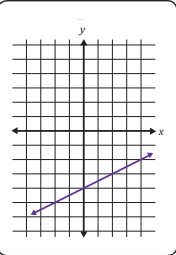
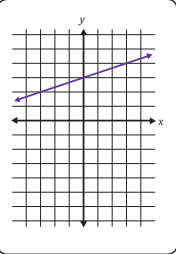
# The Algebra Game: Linear Graphs Matching Card Sets

## Deck C (continued)

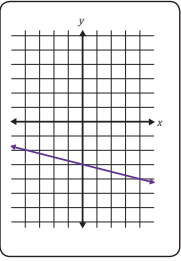
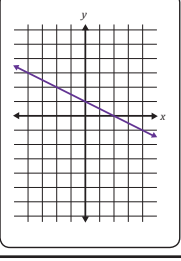
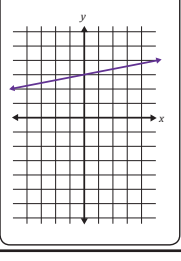
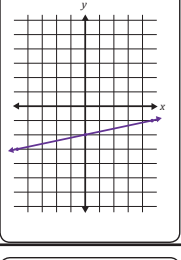
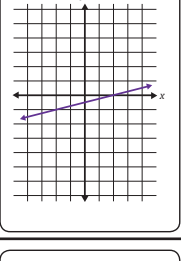
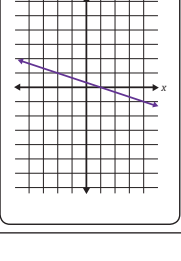
Graph	Slope	y-intercept	Equation	Standard Form	Coordinate Pair												
	$m = +\frac{1}{4}$ slope $\frac{1}{4}x + b = y$	$b = 0$ y-intercept $0 = q$	$y = +\frac{1}{4}x$ equation $x\frac{1}{4} + b = y$	$-x + 4y = 0$ standard form $0 = 4y + x -$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td><math>-\frac{1}{2}</math></td></tr> <tr><td>-1</td><td><math>-\frac{1}{4}</math></td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td><math>\frac{1}{4}</math></td></tr> <tr><td>2</td><td><math>\frac{1}{2}</math></td></tr> </table>	x	y	-2	$-\frac{1}{2}$	-1	$-\frac{1}{4}$	0	0	1	$\frac{1}{4}$	2	$\frac{1}{2}$
x	y																
-2	$-\frac{1}{2}$																
-1	$-\frac{1}{4}$																
0	0																
1	$\frac{1}{4}$																
2	$\frac{1}{2}$																
	$m = -\frac{1}{3}$ slope $\frac{1}{3}x - b = y$	$b = 0$ y-intercept $0 = q$	$y = -\frac{1}{3}x$ equation $x\frac{1}{3} - b = y$	$x + 3y = 0$ standard form $0 = 3y + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td><math>\frac{2}{3}</math></td></tr> <tr><td>-1</td><td><math>\frac{1}{3}</math></td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td><math>-\frac{1}{3}</math></td></tr> <tr><td>2</td><td><math>-\frac{2}{3}</math></td></tr> </table>	x	y	-2	$\frac{2}{3}$	-1	$\frac{1}{3}$	0	0	1	$-\frac{1}{3}$	2	$-\frac{2}{3}$
x	y																
-2	$\frac{2}{3}$																
-1	$\frac{1}{3}$																
0	0																
1	$-\frac{1}{3}$																
2	$-\frac{2}{3}$																
	$m = -4$ slope $4x - b = y$	$b = 0$ y-intercept $0 = q$	$y = -4x$ equation $x4 - b = y$	$4x + y = 0$ standard form $0 = y + 4x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>8</td></tr> <tr><td>-1</td><td>4</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>-4</td></tr> <tr><td>2</td><td>-8</td></tr> </table>	x	y	-2	8	-1	4	0	0	1	-4	2	-8
x	y																
-2	8																
-1	4																
0	0																
1	-4																
2	-8																
	$m = +3$ slope $3x + b = y$	$b = 0$ y-intercept $0 = q$	$y = +3x$ equation $x3 + b = y$	$-3x + y = 0$ standard form $0 = y + 3x -$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-6</td></tr> <tr><td>-1</td><td>-3</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>6</td></tr> </table>	x	y	-2	-6	-1	-3	0	0	1	3	2	6
x	y																
-2	-6																
-1	-3																
0	0																
1	3																
2	6																
	$m = +4$ slope $4x + b = y$	$b = 0$ y-intercept $0 = q$	$y = +4x$ equation $x4 + b = y$	$-4x + y = 0$ standard form $0 = y + 4x -$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-8</td></tr> <tr><td>-1</td><td>-4</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>4</td></tr> <tr><td>2</td><td>8</td></tr> </table>	x	y	-2	-8	-1	-4	0	0	1	4	2	8
x	y																
-2	-8																
-1	-4																
0	0																
1	4																
2	8																
	$m = +2$ slope $2x + b = y$	$b = 0$ y-intercept $0 = q$	$y = +2x$ equation $x2 + b = y$	$-2x + y = 0$ standard form $0 = y + 2x -$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-4</td></tr> <tr><td>-1</td><td>-2</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>4</td></tr> </table>	x	y	-2	-4	-1	-2	0	0	1	2	2	4
x	y																
-2	-4																
-1	-2																
0	0																
1	2																
2	4																

# The Algebra Game: Linear Graphs Matching Card Sets

## Deck D

Graph	Slope	y-intercept	Equation	Standard Form	Coordinate Pair												
	$m = -5$ slope $S = -u$	$b = -1$ y-intercept $I = -q$	$y = -5x - 1$ equation $I - xS = -q$	$5x + y + 1 = 0$ standard form $0 = I + q + xS$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>9</td></tr> <tr><td>-1</td><td>4</td></tr> <tr><td>0</td><td>-1</td></tr> <tr><td>1</td><td>-6</td></tr> <tr><td>2</td><td>-11</td></tr> </table>	x	y	-2	9	-1	4	0	-1	1	-6	2	-11
x	y																
-2	9																
-1	4																
0	-1																
1	-6																
2	-11																
	$m = -4$ slope $4 = -u$	$b = +2$ y-intercept $2 = +q$	$y = -4x + 2$ equation $2 + x4 = -q$	$4x + y - 2 = 0$ standard form $0 = 2 - q + x4$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>10</td></tr> <tr><td>-1</td><td>6</td></tr> <tr><td>0</td><td>2</td></tr> <tr><td>1</td><td>-2</td></tr> <tr><td>2</td><td>-6</td></tr> </table>	x	y	-2	10	-1	6	0	2	1	-2	2	-6
x	y																
-2	10																
-1	6																
0	2																
1	-2																
2	-6																
	$m = +4$ slope $4 = +u$	$b = +\frac{1}{2}$ y-intercept $\frac{2}{1} = +q$	$y = +4x + \frac{1}{2}$ equation $\frac{2}{1} + x4 = +q$	$8x - 2y + 1 = 0$ standard form $0 = 1 + q - x8$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td><math>-7\frac{1}{2}</math></td></tr> <tr><td>-1</td><td><math>-3\frac{1}{2}</math></td></tr> <tr><td>0</td><td><math>\frac{1}{2}</math></td></tr> <tr><td>1</td><td><math>4\frac{1}{2}</math></td></tr> <tr><td>2</td><td><math>8\frac{1}{2}</math></td></tr> </table>	x	y	-2	$-7\frac{1}{2}$	-1	$-3\frac{1}{2}$	0	$\frac{1}{2}$	1	$4\frac{1}{2}$	2	$8\frac{1}{2}$
x	y																
-2	$-7\frac{1}{2}$																
-1	$-3\frac{1}{2}$																
0	$\frac{1}{2}$																
1	$4\frac{1}{2}$																
2	$8\frac{1}{2}$																
	$m = -2$ slope $2 = -u$	$b = +2$ y-intercept $2 = +q$	$y = -2x + 2$ equation $2 + x2 = -q$	$2x + y - 2 = 0$ standard form $0 = 2 - q + x2$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>6</td></tr> <tr><td>-1</td><td>4</td></tr> <tr><td>0</td><td>2</td></tr> <tr><td>1</td><td>0</td></tr> <tr><td>2</td><td>-2</td></tr> </table>	x	y	-2	6	-1	4	0	2	1	0	2	-2
x	y																
-2	6																
-1	4																
0	2																
1	0																
2	-2																
	$m = +\frac{1}{2}$ slope $\frac{2}{1} = +u$	$b = -4$ y-intercept $4 = -q$	$y = +\frac{1}{2}x - 4$ equation $4 - x\frac{2}{1} = +q$	$x - 2y - 8 = 0$ standard form $0 = 8 - q - x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-5</td></tr> <tr><td>-1</td><td><math>-4\frac{1}{2}</math></td></tr> <tr><td>0</td><td>-4</td></tr> <tr><td>1</td><td><math>-3\frac{1}{2}</math></td></tr> <tr><td>2</td><td>-3</td></tr> </table>	x	y	-2	-5	-1	$-4\frac{1}{2}$	0	-4	1	$-3\frac{1}{2}$	2	-3
x	y																
-2	-5																
-1	$-4\frac{1}{2}$																
0	-4																
1	$-3\frac{1}{2}$																
2	-3																
	$m = +\frac{1}{3}$ slope $\frac{3}{1} = +u$	$b = +3$ y-intercept $3 = +q$	$y = +\frac{1}{3}x + 3$ equation $3 + x\frac{3}{1} = +q$	$x - 3y + 9 = 0$ standard form $0 = 9 + q - x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td><math>2\frac{2}{3}</math></td></tr> <tr><td>-1</td><td><math>2\frac{1}{3}</math></td></tr> <tr><td>0</td><td>3</td></tr> <tr><td>1</td><td><math>3\frac{1}{3}</math></td></tr> <tr><td>2</td><td><math>3\frac{2}{3}</math></td></tr> </table>	x	y	-2	$2\frac{2}{3}$	-1	$2\frac{1}{3}$	0	3	1	$3\frac{1}{3}$	2	$3\frac{2}{3}$
x	y																
-2	$2\frac{2}{3}$																
-1	$2\frac{1}{3}$																
0	3																
1	$3\frac{1}{3}$																
2	$3\frac{2}{3}$																

# The Algebra Game: Linear Graphs Matching Card Sets

Deck D (continued)																	
Graph	Slope	y-intercept	Equation	Standard Form	Coordinate Pair												
	$m = -\frac{1}{4}$ slope $\frac{b}{1} = m$	$b = -3$ y-intercept $c = b$	$y = -\frac{1}{4}x - 3$ equation $c - x \frac{b}{1} = a$	$x + 4y + 12 = 0$ standard form $0 = 21 + 4y + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-2<math>\frac{1}{2}</math></td></tr> <tr><td>-1</td><td>-2<math>\frac{3}{4}</math></td></tr> <tr><td>0</td><td>-3</td></tr> <tr><td>1</td><td>-3<math>\frac{1}{4}</math></td></tr> <tr><td>2</td><td>-3<math>\frac{1}{2}</math></td></tr> </table>	x	y	-2	-2 $\frac{1}{2}$	-1	-2 $\frac{3}{4}$	0	-3	1	-3 $\frac{1}{4}$	2	-3 $\frac{1}{2}$
x	y																
-2	-2 $\frac{1}{2}$																
-1	-2 $\frac{3}{4}$																
0	-3																
1	-3 $\frac{1}{4}$																
2	-3 $\frac{1}{2}$																
	$m = -\frac{1}{2}$ slope $\frac{2}{1} = m$	$b = +1$ y-intercept $1 = c$	$y = -\frac{1}{2}x + 1$ equation $1 + x \frac{2}{1} = a$	$x + 2y - 2 = 0$ standard form $0 = 2 - 2x + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>2</td></tr> <tr><td>-1</td><td>1<math>\frac{1}{2}</math></td></tr> <tr><td>0</td><td>1</td></tr> <tr><td>1</td><td><math>\frac{1}{2}</math></td></tr> <tr><td>2</td><td>0</td></tr> </table>	x	y	-2	2	-1	1 $\frac{1}{2}$	0	1	1	$\frac{1}{2}$	2	0
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	$m = +\frac{1}{5}$ slope $\frac{5}{1} = m$	$b = +3$ y-intercept $3 = c$	$y = +\frac{1}{5}x + 3$ equation $3 + x \frac{5}{1} = a$	$x - 5y + 15 = 0$ standard form $0 = 15 - 5y + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>2<math>\frac{3}{5}</math></td></tr> <tr><td>-1</td><td>2<math>\frac{4}{5}</math></td></tr> <tr><td>0</td><td>3</td></tr> <tr><td>1</td><td>3<math>\frac{1}{5}</math></td></tr> <tr><td>2</td><td>3<math>\frac{2}{5}</math></td></tr> </table>	x	y	-2	2 $\frac{3}{5}$	-1	2 $\frac{4}{5}$	0	3	1	3 $\frac{1}{5}$	2	3 $\frac{2}{5}$
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	$m = +\frac{1}{5}$ slope $\frac{5}{1} = m$	$b = -2$ y-intercept $-2 = c$	$y = +\frac{1}{5}x - 2$ equation $-2 - x \frac{5}{1} = a$	$x - 5y - 10 = 0$ standard form $0 = -10 - 5y + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-2<math>\frac{2}{5}</math></td></tr> <tr><td>-1</td><td>-2<math>\frac{3}{5}</math></td></tr> <tr><td>0</td><td>-2</td></tr> <tr><td>1</td><td>-2<math>\frac{4}{5}</math></td></tr> <tr><td>2</td><td>-2<math>\frac{1}{5}</math></td></tr> </table>	x	y	-2	-2 $\frac{2}{5}$	-1	-2 $\frac{3}{5}$	0	-2	1	-2 $\frac{4}{5}$	2	-2 $\frac{1}{5}$
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	$m = +\frac{1}{4}$ slope $\frac{4}{1} = m$	$b = -\frac{1}{2}$ y-intercept $\frac{2}{1} = c$	$y = +\frac{1}{4}x - \frac{1}{2}$ equation $\frac{2}{1} - x \frac{4}{1} = a$	$x - 4y - 2 = 0$ standard form $0 = -2 - 4y + x$	coordinate pairs <table border="1"> <tr><td>x</td><td>y</td></tr> <tr><td>-2</td><td>-1</td></tr> <tr><td>-1</td><td>-<math>\frac{3}{4}</math></td></tr> <tr><td>0</td><td>-<math>\frac{1}{2}</math></td></tr> <tr><td>1</td><td>-<math>\frac{1}{4}</math></td></tr> <tr><td>2</td><td>0</td></tr> </table>	x	y	-2	-1	-1	- $\frac{3}{4}$	0	- $\frac{1}{2}$	1	- $\frac{1}{4}$	2	0
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