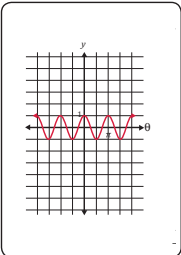
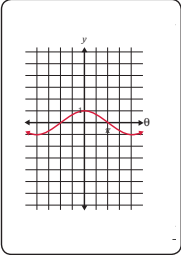
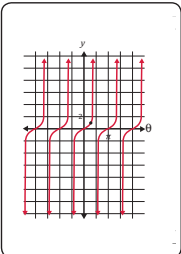
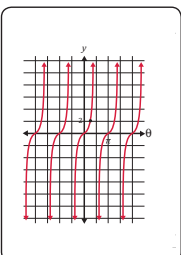
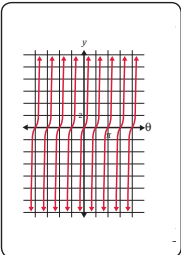
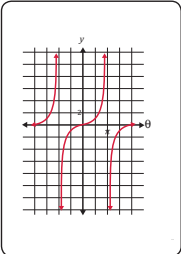


The Algebra Game: Trig Functions Matching Card Sets

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The Algebra Game: Trig Functions Matching Card Sets

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The Algebra Game: Trig Functions Matching Card Sets

Deck C																								
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The Algebra Game: Trig Functions Matching Card Sets

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The Algebra Game: Trig Functions Matching Card Sets

Deck D																								
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	$y = 3 + \sin \frac{1}{2} \theta$ equation $y = 3 + \sin \frac{1}{2} \theta$	1 amplitude 1	4π period 4π	coordinate pairs <table border="1"> <thead> <tr> <th>θ</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-360°</td><td>3</td></tr> <tr><td>-270°</td><td>2.293</td></tr> <tr><td>-180°</td><td>2</td></tr> <tr><td>-90°</td><td>2.293</td></tr> <tr><td>0°</td><td>3</td></tr> <tr><td>90°</td><td>3.707</td></tr> <tr><td>180°</td><td>4</td></tr> <tr><td>270°</td><td>3.707</td></tr> <tr><td>360°</td><td>3</td></tr> </tbody> </table>	θ	y	-360°	3	-270°	2.293	-180°	2	-90°	2.293	0°	3	90°	3.707	180°	4	270°	3.707	360°	3
θ	y																							
-360°	3																							
-270°	2.293																							
-180°	2																							
-90°	2.293																							
0°	3																							
90°	3.707																							
180°	4																							
270°	3.707																							
360°	3																							
	$y = \frac{1}{2} \cot \frac{1}{4} \theta$ equation $y = \frac{1}{2} \cot \frac{1}{4} \theta$	$\theta = 4\pi$ asymptote $\theta = 4\pi$	4π period 4π	coordinate pairs <table border="1"> <thead> <tr> <th>θ</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-360°</td><td>0</td></tr> <tr><td>-270°</td><td>-0.207</td></tr> <tr><td>-180°</td><td>-0.5</td></tr> <tr><td>-90°</td><td>-1.207</td></tr> <tr><td>0°</td><td>undefined</td></tr> <tr><td>90°</td><td>1.207</td></tr> <tr><td>180°</td><td>0.5</td></tr> <tr><td>270°</td><td>0.207</td></tr> <tr><td>360°</td><td>0</td></tr> </tbody> </table>	θ	y	-360°	0	-270°	-0.207	-180°	-0.5	-90°	-1.207	0°	undefined	90°	1.207	180°	0.5	270°	0.207	360°	0
θ	y																							
-360°	0																							
-270°	-0.207																							
-180°	-0.5																							
-90°	-1.207																							
0°	undefined																							
90°	1.207																							
180°	0.5																							
270°	0.207																							
360°	0																							
	$y = 2 + \frac{1}{3} \cot \theta$ equation $y = 2 + \frac{1}{3} \cot \theta$	$\theta = \pi$ asymptote $\theta = \pi$	π period π	coordinate pairs <table border="1"> <thead> <tr> <th>θ</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-360°</td><td>undefined</td></tr> <tr><td>-270°</td><td>2</td></tr> <tr><td>-180°</td><td>undefined</td></tr> <tr><td>-90°</td><td>2</td></tr> <tr><td>0°</td><td>undefined</td></tr> <tr><td>90°</td><td>2</td></tr> <tr><td>180°</td><td>undefined</td></tr> <tr><td>270°</td><td>2</td></tr> <tr><td>360°</td><td>undefined</td></tr> </tbody> </table>	θ	y	-360°	undefined	-270°	2	-180°	undefined	-90°	2	0°	undefined	90°	2	180°	undefined	270°	2	360°	undefined
θ	y																							
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θ	y																							
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	$y = 4 + \frac{3}{2} \cos \frac{1}{3} \theta$ equation $y = 4 + \frac{3}{2} \cos \frac{1}{3} \theta$	$\frac{3}{2}$ amplitude $\frac{3}{2}$	6π period 6π	coordinate pairs <table border="1"> <thead> <tr> <th>θ</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-360°</td><td>3.25</td></tr> <tr><td>-270°</td><td>4</td></tr> <tr><td>-180°</td><td>4.75</td></tr> <tr><td>-90°</td><td>5.299</td></tr> <tr><td>0°</td><td>5.5</td></tr> <tr><td>90°</td><td>5.299</td></tr> <tr><td>180°</td><td>4.75</td></tr> <tr><td>270°</td><td>4</td></tr> <tr><td>360°</td><td>3.25</td></tr> </tbody> </table>	θ	y	-360°	3.25	-270°	4	-180°	4.75	-90°	5.299	0°	5.5	90°	5.299	180°	4.75	270°	4	360°	3.25
θ	y																							
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360°	3.25																							

The Algebra Game: Trig Functions Matching Card Sets

Deck D (continued)

Graph	Equation	Amplitude/ Asymptote	Period	Coordinate Pair																				
	$y = 3 \sec \frac{1}{4} \theta$ equation $\theta \frac{1}{4} \text{ csc } \frac{1}{4} \theta = \text{c}$	$\theta = 2\pi$ asymptote $12 = \theta$	8π period 18	coordinate pairs <table border="1"> <thead> <tr> <th>θ</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-360°</td><td>undefined</td></tr> <tr><td>-270°</td><td>7.839</td></tr> <tr><td>-180°</td><td>4.243</td></tr> <tr><td>-90°</td><td>3.247</td></tr> <tr><td>0°</td><td>3</td></tr> <tr><td>90°</td><td>3.247</td></tr> <tr><td>180°</td><td>4.243</td></tr> <tr><td>270°</td><td>7.839</td></tr> <tr><td>360°</td><td>undefined</td></tr> </tbody> </table>	θ	y	-360°	undefined	-270°	7.839	-180°	4.243	-90°	3.247	0°	3	90°	3.247	180°	4.243	270°	7.839	360°	undefined
θ	y																							
-360°	undefined																							
-270°	7.839																							
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270°	7.839																							
360°	undefined																							
	$y = 1 + \frac{1}{2} \sec \frac{1}{4} \theta$ equation $\theta \frac{1}{4} \text{ csc } \frac{1}{4} \theta + 1 = \text{c}$	$\theta = 2\pi$ asymptote $12 = \theta$	8π period 18	coordinate pairs <table border="1"> <thead> <tr> <th>θ</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-360°</td><td>undefined</td></tr> <tr><td>-270°</td><td>2.307</td></tr> <tr><td>-180°</td><td>1.707</td></tr> <tr><td>-90°</td><td>1.541</td></tr> <tr><td>0°</td><td>1.5</td></tr> <tr><td>90°</td><td>1.541</td></tr> <tr><td>180°</td><td>1.707</td></tr> <tr><td>270°</td><td>2.307</td></tr> <tr><td>360°</td><td>undefined</td></tr> </tbody> </table>	θ	y	-360°	undefined	-270°	2.307	-180°	1.707	-90°	1.541	0°	1.5	90°	1.541	180°	1.707	270°	2.307	360°	undefined
θ	y																							
-360°	undefined																							
-270°	2.307																							
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θ	y																							
-360°	0																							
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	$y = 1 + \frac{1}{2} \tan \frac{1}{2} \theta$ equation $\theta \frac{2}{1} \tan \frac{1}{2} \theta + 1 = \text{c}$	$\theta = \pi$ asymptote $11 = \theta$	2π period 2π	coordinate pairs <table border="1"> <thead> <tr> <th>θ</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-360°</td><td>1</td></tr> <tr><td>-270°</td><td>1.5</td></tr> <tr><td>-180°</td><td>undefined</td></tr> <tr><td>-90°</td><td>0.5</td></tr> <tr><td>0°</td><td>1</td></tr> <tr><td>90°</td><td>1.5</td></tr> <tr><td>180°</td><td>undefined</td></tr> <tr><td>270°</td><td>0.5</td></tr> <tr><td>360°</td><td>1</td></tr> </tbody> </table>	θ	y	-360°	1	-270°	1.5	-180°	undefined	-90°	0.5	0°	1	90°	1.5	180°	undefined	270°	0.5	360°	1
θ	y																							
-360°	1																							
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	$y = 4 \csc \frac{1}{4} \theta$ equation $\theta \frac{1}{4} \text{ csc } \frac{1}{4} \theta = \text{c}$	$\theta = 4\pi$ asymptote $12 = \theta$	8π period 18	coordinate pairs <table border="1"> <thead> <tr> <th>θ</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-360°</td><td>-4</td></tr> <tr><td>-270°</td><td>-4.330</td></tr> <tr><td>-180°</td><td>-5.657</td></tr> <tr><td>-90°</td><td>-10.453</td></tr> <tr><td>0°</td><td>undefined</td></tr> <tr><td>90°</td><td>10.453</td></tr> <tr><td>180°</td><td>5.657</td></tr> <tr><td>270°</td><td>4.330</td></tr> <tr><td>360°</td><td>4</td></tr> </tbody> </table>	θ	y	-360°	-4	-270°	-4.330	-180°	-5.657	-90°	-10.453	0°	undefined	90°	10.453	180°	5.657	270°	4.330	360°	4
θ	y																							
-360°	-4																							
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θ	y																							
-360°	undefined																							
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