Trigonometry

Hand Graphing Worksheet

*Graph by hand on graph paper. Check with*

*graphing calculator.*

***Part I***

1. $sin⁡(x+\frac{3π}{4}$)
2. cos$\left(x-\frac{2π}{7}\right)$ +4
3. 2cos$\left(x+\frac{3π}{5}\right)-3$
4. -sin$\left(x-\frac{π}{4}\right)$
5. 1/2 cos$\left(-\frac{5π}{6}+x\right)$
6. 1/4sin$\left(-\frac{7π}{6}+x\right)$

***Part II***

1. -3sin$\left(\frac{π}{2}x\right)$
2. 4sin$\left(7x\right)$
3. -2cos$(πx)$
4. –sin$ \left(x+\frac{π}{8}\right)$
5. -1/2cos$\left(x+\frac{π}{5}\right)$

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***Part III***

1. 5sin$\left(3x-2π\right)$
2. –cos$\left(2πx-π\right)$
3. 2sin$\left(-4x-π\right)$
4. 3cos$(\frac{π}{2}x+\frac{π}{2})$-2
5. 4cos$\left(-3x-\frac{π}{2}\right)$

***Part IV***

1. 2csc$\left(3x-\frac{π}{2}\right)$
2. tan(2x)+1
3. cot$\left(x+\frac{π}{2}\right)$
4. tan$\left(\frac{π}{2}x\right)$
5. -2sec$\left(3x+\frac{π}{2}\right)$

***Part V***

1. 4cot$\left(3x-\frac{π}{2}\right)+2$
2. csc$\left(-4x-π\right)+3$
3. sec$\left(3x-π\right)$
4. 1/2csc$(πx+\frac{π}{2})$ +2
5. 2tan$\left(\frac{1}{2}x+\frac{π}{2}\right)+2$
6. Find an equation for the graph shown to the right. Cite one sine and one cosine equation.

8

10

-6

5

2

1. Find an equation for the graph shown to the right. Cite one sine and one cosine equation.

$$\frac{9π}{4}$$

$$ -\frac{π}{4}$$

-6