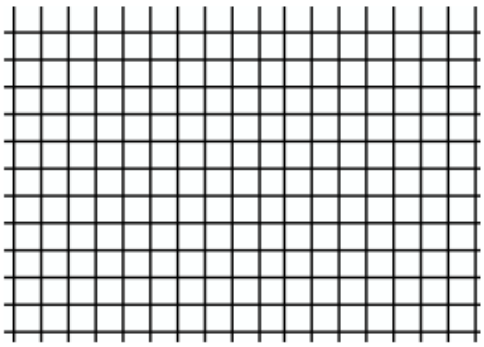
Algebra 2 / Trig—H HW #_____ Name_____

Graphing Practice

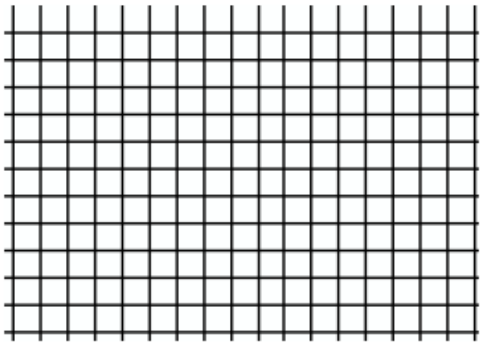
14.1, 14.2, reciprocal functions Date_____

Graph one period. Label both axes.

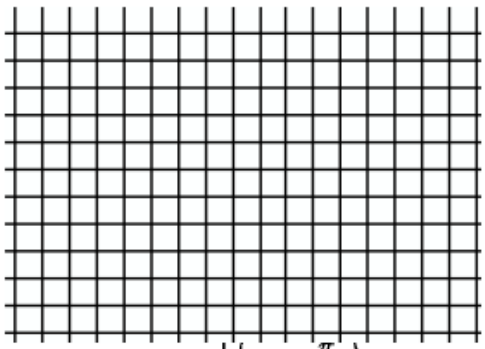
1. $y = -2\tan\frac{1}{3}x$



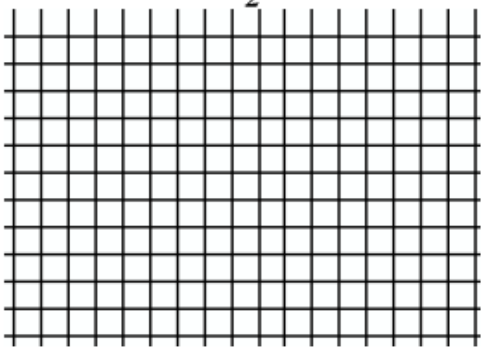
2. $y = \sin \pi x - 3$



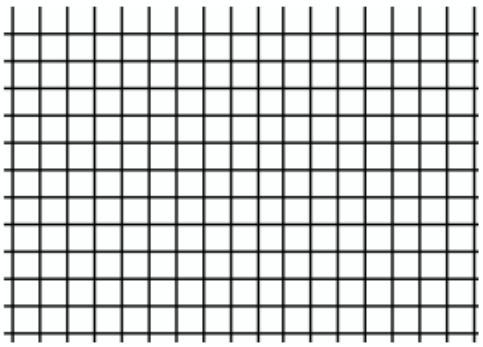
3. $y = 2\sin\frac{\pi}{2}(x+1)$



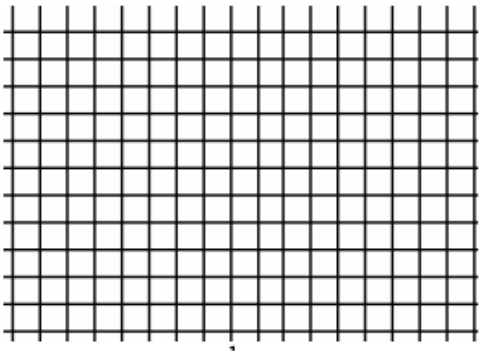
4. $y = -3\cos\frac{1}{2}(x - \pi) + 4$



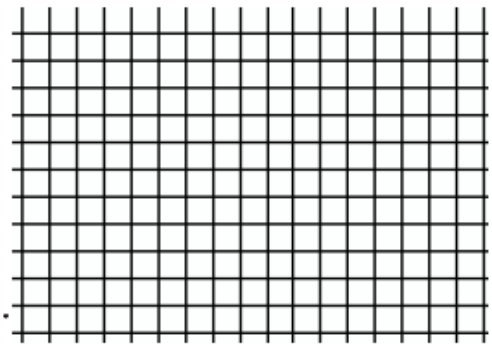
5. $y = \tan\frac{1}{4}\left(x + \frac{\pi}{2}\right) + 2$



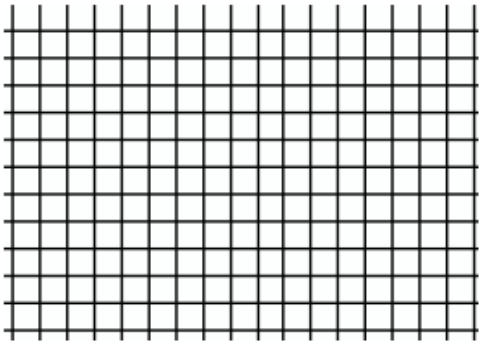
6. $y = \csc 2x$



7. $y = 3\sec x$



8. $y = 2\cot\frac{1}{4}x$



Write an equation of the graph described.

9. The graph of $y = 3\tan 2x$ is translated up 8 units and then reflected in the line $y = 8$.

10. The graph of $y = \frac{1}{2}\cos 6x$ is translated down 5 units and right $\frac{\pi}{6}$ units.

11. The graph of $y = 6\sin\frac{1}{2}x$ is translated left π units and then reflected in the x – axis.

12. The graph of $y = \cos x$ has a maximum of 4, a minimum of - 2, and a period of $\frac{2\pi}{3}$