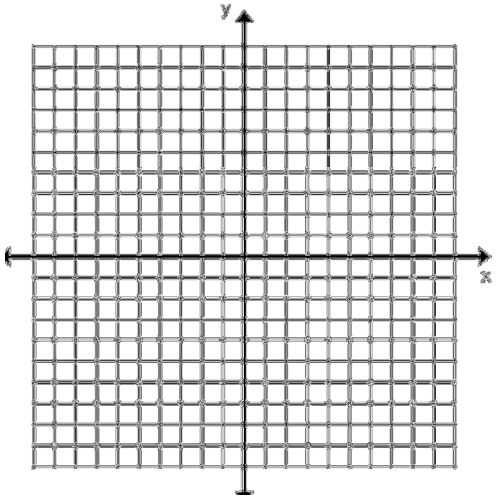
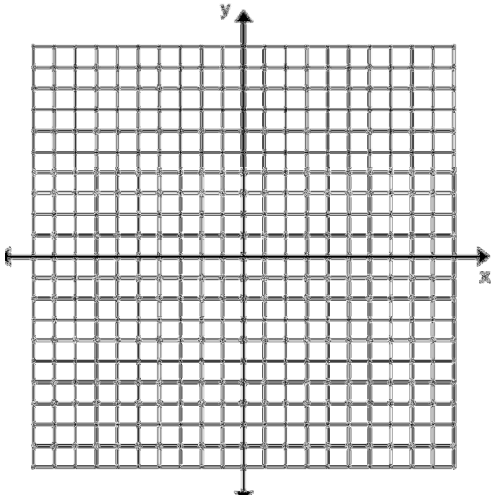
Pre-Calculus
Chapter 4 (Part 2) Test Review

Graph each function using radians.

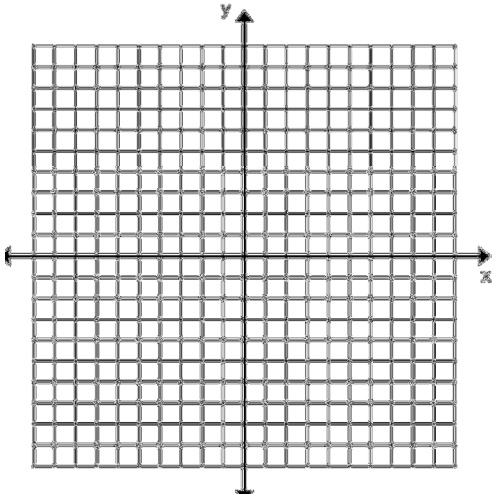
1. $y = 2\sec\left(\frac{x}{3}\right)$



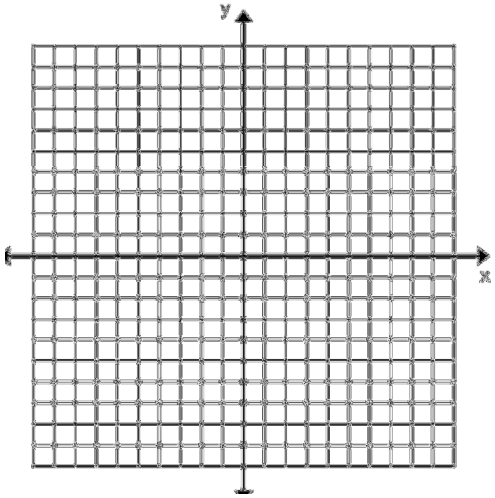
2. $y = \frac{1}{2}\csc\left(\frac{x}{2}\right)$



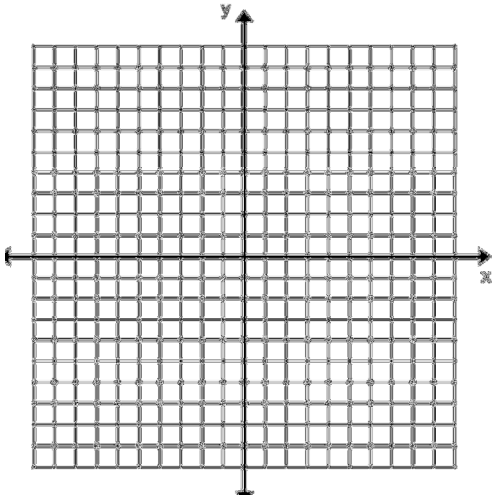
3. $y = 3\tan\left(\frac{2x}{3}\right)$



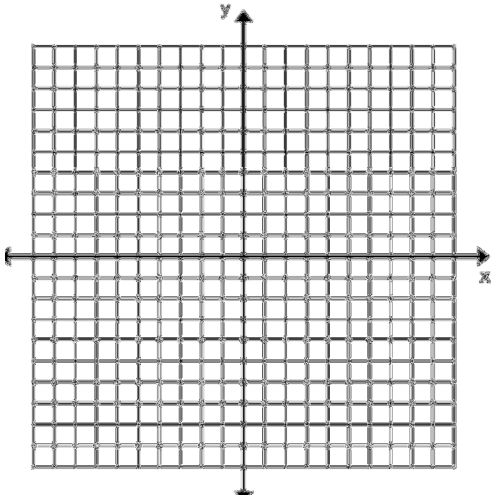
4. $y = \frac{5}{2}\cot(2x)$



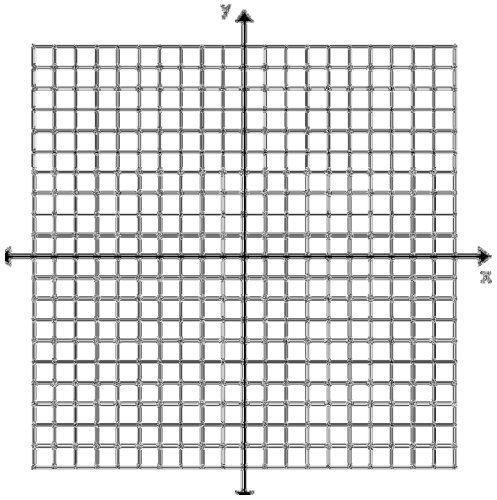
5. $y = \frac{1}{2}\csc\left(\frac{1}{3}(x-\pi)\right)+2$



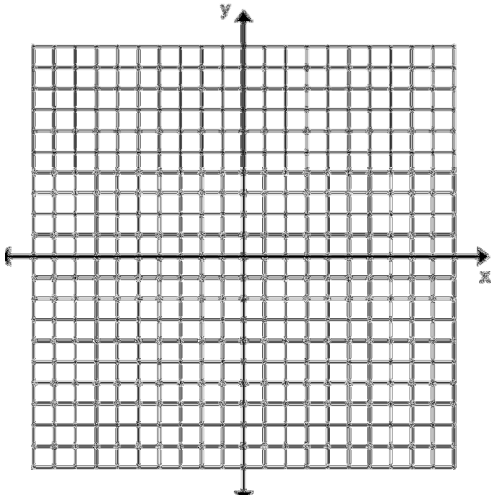
6. $y = \tan\left(\frac{x}{2}+\frac{3\pi}{4}\right)$



7. $y = 2\sec\left(2x + \frac{3\pi}{4}\right) - 2$



8. $y = 4\cot\left(x - \frac{2\pi}{3}\right)$



Solve each equation for $0 \le \theta \le 2\pi$.

9. $\frac{17}{4} = 4 + \frac{1}{4}\csc\left(\frac{\theta}{2}\right)$

10. $1 + 2\cot\left(\theta + \frac{2\pi}{3}\right) = -1$

11. $2 + 2\sec(-2\theta) = 0$

12. $1 - 2\tan\left(\theta + \frac{11\pi}{6}\right) = 1$

13. $-5 - 2\sec 4\theta = -3$

14. $4 = 4 - 3\tan 2\theta$

15. $-8 = -4 - 2\csc\left(\theta + \frac{\pi}{3}\right)$

16. $-4 - 2\tan(-\theta) = -2$