Pre-Calculus AB
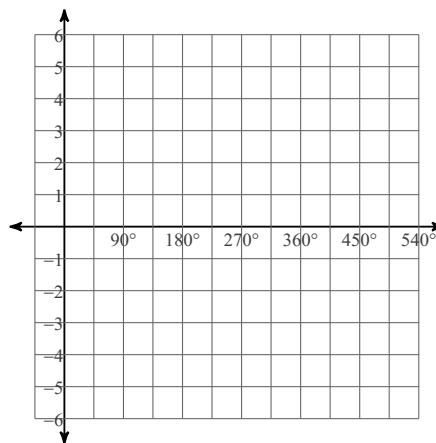
Name_____

Worksheet 37 - Lesson 94 & 95

Date_____ Period_____

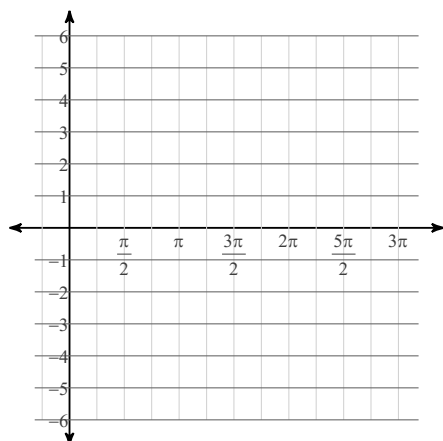**Graph each function using degrees.**
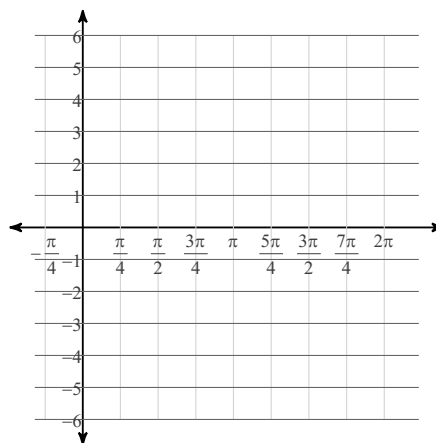
1) $y = 2\cot \theta$
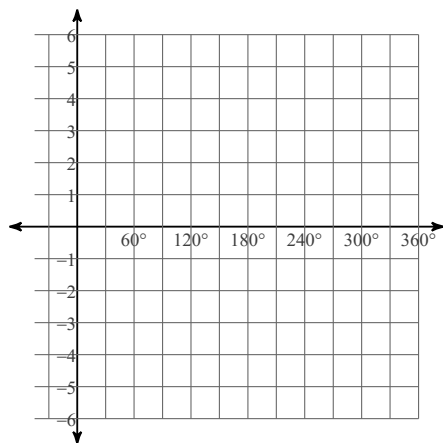
2) $y = 2\csc \theta - 2$

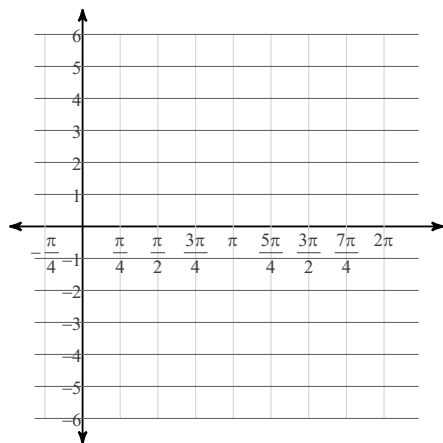**Graph each function using radians.**
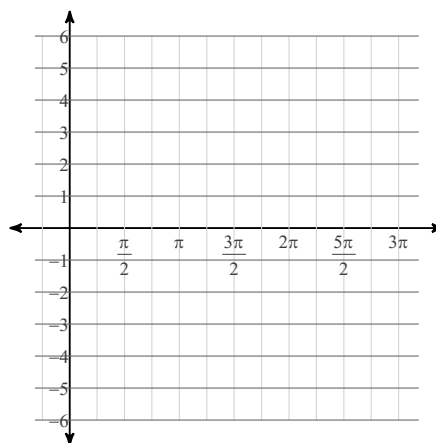
3) $y = \sec \theta + 1$

4) $y = \dfrac{1}{2} \cdot \tan \theta + 1$

5) $y = 2 + \cot \theta$

6) $y = \dfrac{1}{2} \cdot \sec \theta + 1$

7) Find the fourth roots of $3 + 4i$ and express the roots in polar form. Round to two decimal places.

8) Find the fifth roots of $2 - 3i$ and express the roots in polar form. Round to two decimal places.

Graph each function using radians.

9) $y = 3\cos\left(-4\theta + \dfrac{\pi}{2}\right) - 2$

10) $y = -1 + \dfrac{1}{2} \cdot \sin\left(-\dfrac{\theta}{2} + \dfrac{7\pi}{6}\right)$