

## Trigonometry Review

1. For the following triangle, calculate the values of the six trigonometric functions for the given angle. (Leave your answer as a ratio)

$$\sin\theta = \text{---}$$

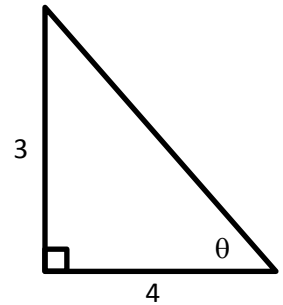
$$\csc\theta = \text{---}$$

$$\cos\theta = \text{---}$$

$$\sec\theta = \text{---}$$

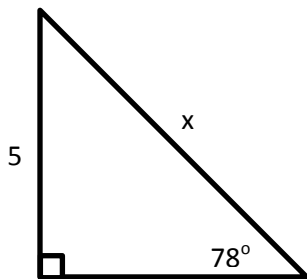
$$\tan\theta = \text{---}$$

$$\cot\theta = \text{---}$$

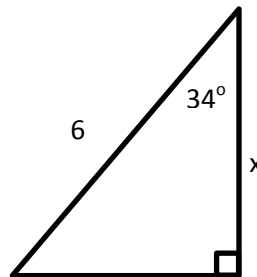


Solve for the missing variable:

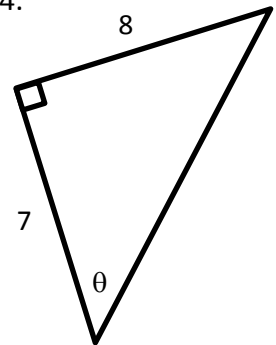
2.



3.



4.



Express in Radians: 5.  $34^\circ$

6.  $200^\circ$

Express in Degrees: 7.  $\frac{\pi}{6}$

8.  $\frac{4\pi}{9}$

Evaluate

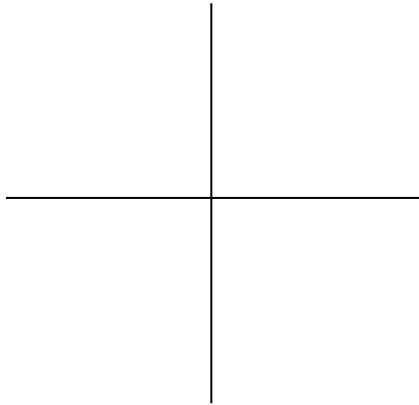
9.  $\tan 2.3$

10.  $\sin 67.4^\circ$

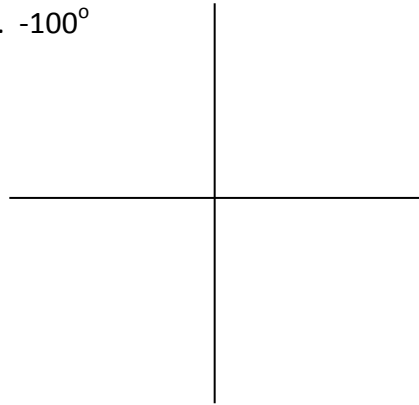
11.  $\cot 15^\circ$

Draw the following angles and state the reference angle:

12.  $305^\circ$

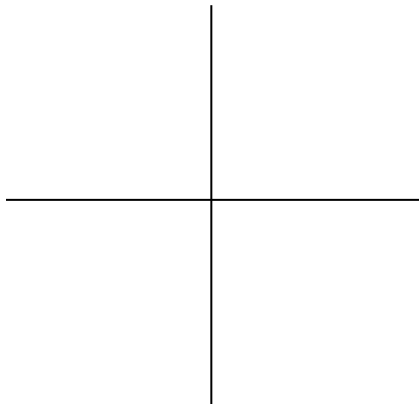


13.  $-100^\circ$

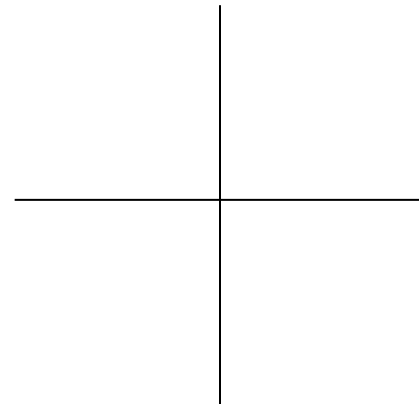


Draw a triangle that satisfies the given information and find the value of  $\cos\theta$ :

14. *Quadrant = III*,  $\sin\theta = \frac{-3}{6}$



15. *Quadrant = IV*,  $\tan\theta = -\frac{4}{7}$



State the amplitude, period, midline and phase shift of the following graphs:

16.  $y = 3\sin 2x$

17.  $y = \tan x - 3$