Trigonometry Review 2

1. For the following triangle, calculate the values of the six trigonometric functions for the given angle. (Leave your answer as a ratio)
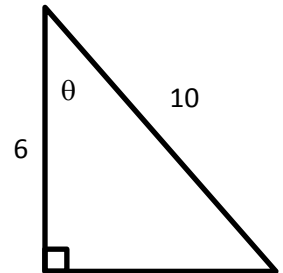
$sin\theta = $ —— $csc\theta = $ ——

$cos\theta = $ —— $sec\theta = $ ——

$tan\theta = $ —— $cot\theta = $ ——
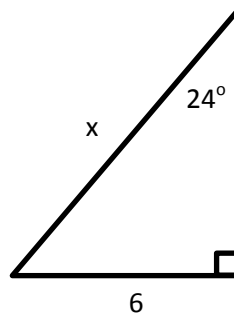

Solve for the missing variable:
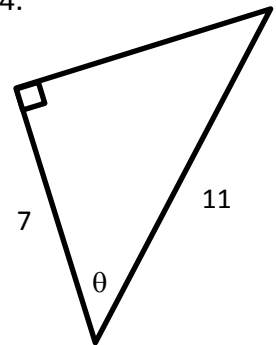
2.
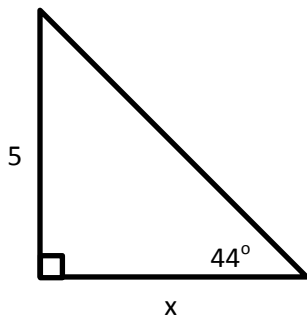
3.

4.

Express in Radians: 5. 67° 6. 120°

Express in Degrees: 7. $\dfrac{\pi}{3}$ 8. $\dfrac{2\pi}{7}$

Evaluate
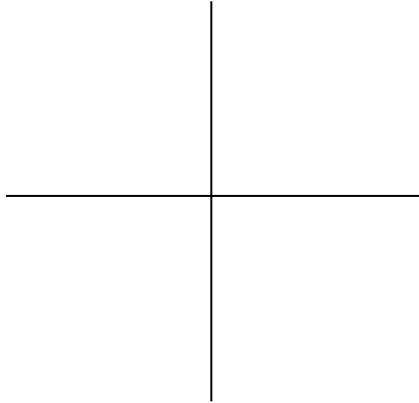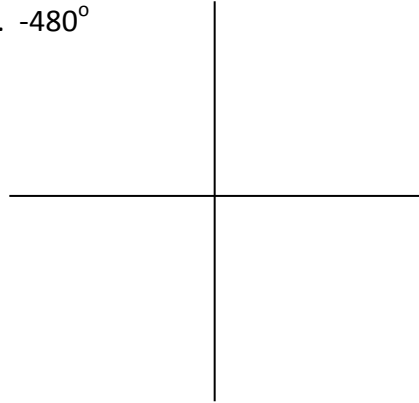
9. cos 2.7 10. tan 33° 11. $\sin^{-1} 0.56$

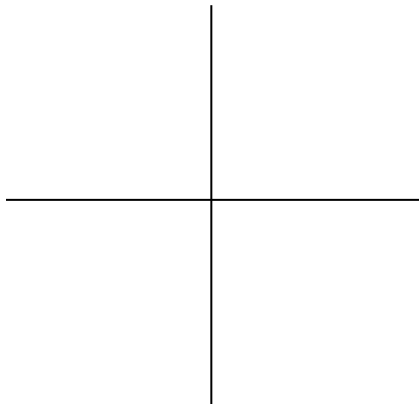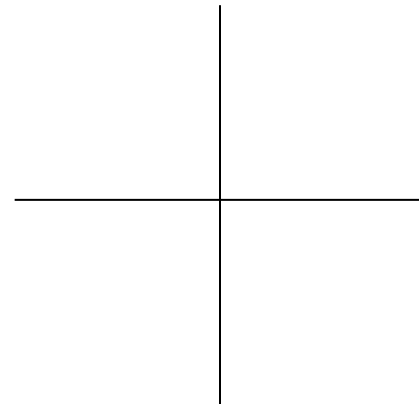Draw the following angles and state the reference angle:

12. 195° 13. -480°

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

14. $Quadrant = I, \quad tan\theta = \frac{3}{6}$ 15. $Quadrant = II, \quad cos\theta = -\frac{4}{7}$

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

16. $y = 5\cos(x + 45°) + 2$ 17. $y = 8tan4x + 2$