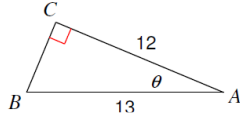


Module 17 Review and Concepts

1. Given the following triangle. Find $\tan \theta =$



Given $\tan \theta = \frac{4}{3}$, find the following trig ratios:

2. $\cos \theta =$

3. $\csc \theta =$

4. The angle of depression of the sun is 28° when a building casts a shadow 30 feet long. Set up a trig equation to solve for the height of the building based on the given information.

Name a positive and negative angle that is co-terminal to the given:

5. $\frac{\pi}{4}$

6. 200°

What is the reference angle for the following?

7. 220°

8. $\frac{7\pi}{4}$

Convert the following from degrees to radians or from radians to degrees:

9. 100°

10. $\frac{2\pi}{15}$

Identify the following trig function values:

11. $\cot 330^\circ =$

12. $\sec -120^\circ =$

13. $\sec \frac{3\pi}{4} =$

14. $\tan \frac{4\pi}{3} =$

15. $\sin 45^\circ \cos 150^\circ$

16. $\tan \frac{5\pi}{3} \cot \frac{2\pi}{3}$

Graph The following:

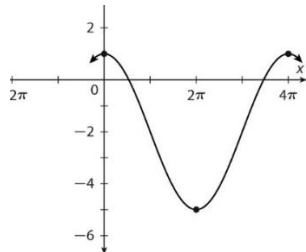
5. $y = 4\cos 2\left(x + \frac{\pi}{6}\right) - 2$

6. $y = -5\sin\left(x + \frac{\pi}{12}\right)$

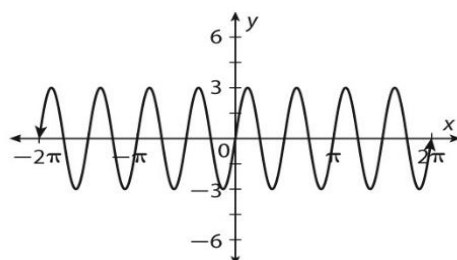
7. $y = 3\cos\left(3x + \frac{\pi}{6}\right)$

Write a sine and a cosine equation of the following graphs

20.



21.



22. Be able to solve Trig Equations.