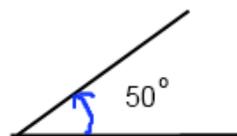
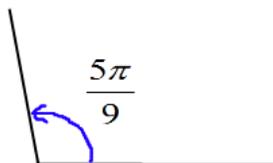


## Trigonometry Review

1. Determine two coterminal angles in degree measure (one positive and one negative) for each angle:



2. Determine two coterminal angles in radian measure (one positive and one negative) for each angle:



3. Find the exact value of the following

$$\sin \frac{\pi}{3}$$

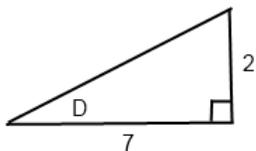
4. Find the exact value of the following

$$\sec \frac{3\pi}{4}$$

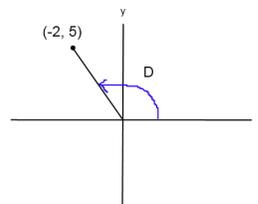
5. Find the exact value of the following

$$\cos \frac{13\pi}{4}$$

6. Find the exact value of the six trig functions of angle D



7. Determine all six trigonometric functions for the angle D



8. Determine the quadrant in which  $\theta$  lies

- a)  $\sin \theta > 0$  and  $\cos \theta < 0$   
 b)  $\sec \theta < 0$  and  $\tan \theta < 0$

9. Using  $x$ ,  $y$ , and  $r$  formulas, find the following

$$\sin \theta = \frac{2}{7}, \theta \text{ in QII}$$

$$\tan \theta = \underline{\hspace{2cm}}$$

10. Using  $x$ ,  $y$ , and  $r$  formulas, find the following

$$\cot \theta = 5, \sin \theta < 0$$

$$\sec \theta = \underline{\hspace{2cm}}$$

11. Use a calculator to evaluate each trigonometric function. Round your answers to four decimal places

$$\sin 20^\circ$$

12. Use a calculator to evaluate each trigonometric function. Round your answers to four decimal places

$$\cot 35^\circ$$

13. Use a calculator to evaluate each trigonometric function. Round your answers to four decimal places

$$\csc \frac{\pi}{5}$$

14. Solve the following equation  
( $0 \leq \theta < 2\pi$ )

$$\sin \theta = \frac{-\sqrt{2}}{2}$$

15. Solve the following equation  
( $0 \leq \theta < 2\pi$ )

$$2 \cos \theta + 1 = 0$$

16. Solve the following equation  
( $0 \leq \theta < 2\pi$ )

$$\tan \theta = -1$$

17. Solve the following equation  
( $0 \leq \theta < 2\pi$ )

$$\cot \theta = \frac{\sqrt{3}}{3}$$

18. Solve the following equation  
( $0 \leq \theta < 2\pi$ )

$$2\cos^2 \theta = 1$$

19. Solve the following equation  
( $0 \leq \theta < 2\pi$ )

$$2\sin^2 \theta - \sin \theta - 1 = 0$$

20. Solve the following equation  
( $0 \leq \theta < 2\pi$ )

$$\cos \theta = \sec \theta$$

21. Solve the following equation  
( $0 \leq \theta < 2\pi$ )

$$\cos(2\theta) = \frac{\sqrt{2}}{2}$$

22. Solve the following equation  
( $0 \leq \theta < 2\pi$ )

$$\cos \theta = \frac{1}{8}$$