

Algebra II  
Trigonometry 5

Name \_\_\_\_\_

Evaluate the function without using a calculator.

1.  $\sin 150^\circ$

2.  $\tan \frac{3\pi}{4}$

3.  $\cos -240^\circ$

4.  $\sin -\frac{\pi}{3}$

5.  $\sin 90^\circ$

6.  $\tan -\frac{\pi}{2}$

7.  $\cos 180^\circ$

8.  $\tan -\frac{3\pi}{2}$

Find  $\sin \theta$ ,  $\cos \theta$ , and  $\tan \theta$  for each point that is on the terminal side of angle  $\theta$  in standard position. (Hint: Draw the angle in standard position)

9.  $(-2, 3)$

10.  $(5, -2)$

11.  $(-8, -15)$

12.  $(0, -4)$

Review

13. Given that  $\tan \theta = -\frac{24}{7}$  and  $\theta$  is in QIV, find  $\cos \theta$  and  $\sin \theta$ .

14. Solve triangle DEF, with right angle F and has side  $e = 9$  and side  $f = 16$ .