

1. Draw the angle in standard position and give a coterminal angle:

a)  $\frac{5\pi}{6}$

b)  $\frac{7\pi}{8}$

2. Convert to degrees:  $\frac{7\pi}{5}$

3. Convert to DMS: 2.6

4. A circle of radius  $r$  has a central angle of  $15^\circ$  which subtends an arc of 23 inches. Find the length of the radius.

5. Referencing the unit circle, give the six trig values for  $t$  when

a)  $t = \frac{2\pi}{3}$

b)  $t = -\frac{\pi}{2}$

$\cos t =$

$\sec t =$

$\cos t =$

$\sec t =$

$\sin t =$

$\csc t =$

$\sin t =$

$\csc t =$

$\tan t =$

$\cot t =$

$\tan t =$

$\cot t =$

6. Point  $(-2,5)$  is on the terminal side of an angle in standard position. Find the exact value of  $\cos$ .

7. IV,  $\sin \theta = -0.6$ , find  $\sec \theta$

8. II,  $\cos \theta = -3/8$ , find  $\cot \theta$