

Determine what quadrant in which the angle lies.

1.  $150^\circ$

2.  $282^\circ$

3.  $\frac{5\pi}{2}$

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

5.  $-\frac{11\pi}{9}$

Sketch the angle in standard position.

6.  $60^\circ$

7.  $-150^\circ$

8.  $-480^\circ$

9.  $630^\circ$

Convert into radians.

10.  $30^\circ$

11.  $315^\circ$

12.  $-144^\circ$

Convert into degrees.

13.  $\frac{3\pi}{2}$

14.  $\frac{7\pi}{3}$

15.  $-\frac{7\pi}{6}$

Find the length of the arc.

16.  $\frac{\pi}{6}; r = 2.5m$

17.  $\frac{5\pi}{12}; r = 4yd$

18.  $105^\circ; r = 18.2cm$