## **Radian Measure Practice**

Write each measure in radians. Express your answer in terms of  $\pi$ . Fill answers in your notes, if needed.

1.45°

2.90°

3.30°

4. 150°

5. 225°

6.60°

7. 120°

8. 210°

Write each measure in degrees. Fill answers in your notes, if needed.

 $9.\pi$ 

10.  $2\pi$ 

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

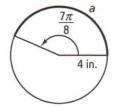
14.  $\frac{7\pi}{4}$ 

15.  $\frac{4\pi}{3}$ 

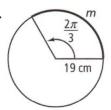
16.  $\frac{5\pi}{3}$ 

Use each circle to find the length of the indicated arc. Round your answer to the nearest tenth.

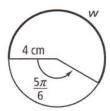
17.



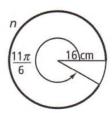
18.



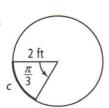
19.



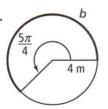
20.



21.



22.



- 23. A pendulum swings through an angle of 1.8 radians. The distance the tip of the pendulum travels is 32 inches. How long is the pendulum?
- 24. A 0.8 meter pendulum swings through an angle of 1.5 radians. What distance does the tip of the pendulum travel?