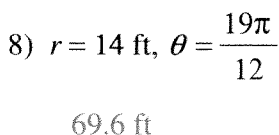
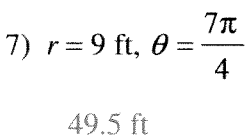
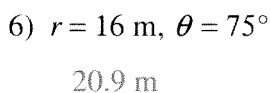
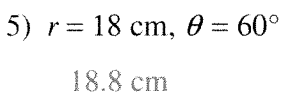
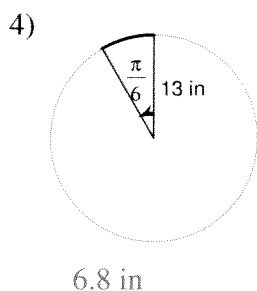
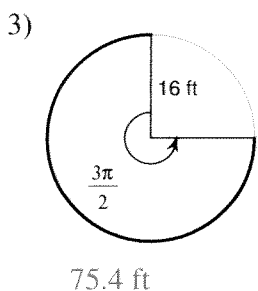
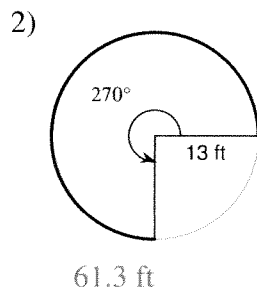
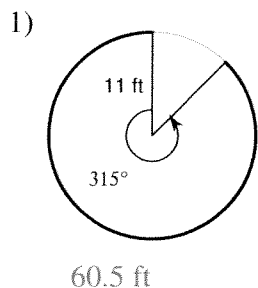
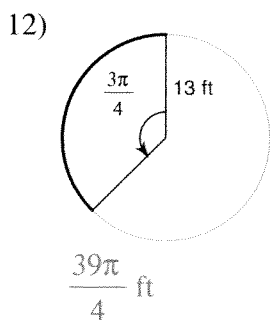
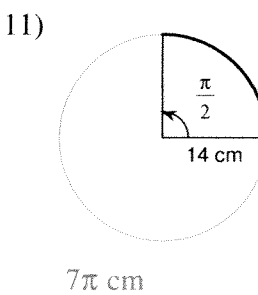
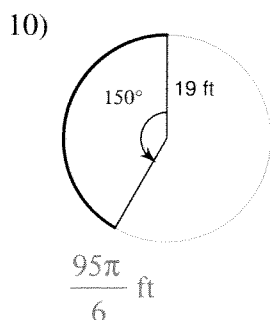
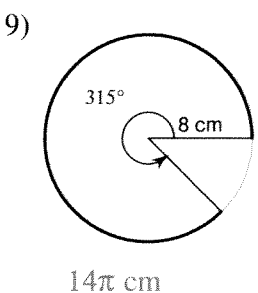


Arc Length and Sector Area

Find the length of each arc. Round your answers to the nearest tenth.



Find the length of each arc. Do not round.



13. A clock has a second hand with a length of 15cm. What is the angular and linear velocity of the end of the second hand?
14. A watch has a second hand with a length of 0.85cm. What is the angular and linear velocity of the end of the second hand?
15. Big Ben in London has a minute hand with a length of 4.2m. What is the angular and linear velocity of the end of the minute hand?
16. The circular blade on a power saw has a diameter of 30cm. The blade rotates at 2400 revolutions per minute.
- Find the Angular velocity in radians per second.
 - Find the linear velocity of the saw's teeth in meters per second.

Extra Credit: A car is moving at the rate of 50 mph, and the diameter of its wheels is 2.5 feet.

- Find the revolutions per minute of the rotating wheels.
- Find the angular velocity of the wheels in radians per minute.