Name:

Date:

## Arc Length and Sector Area

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

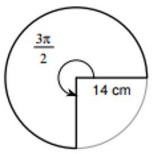
1) $r = 15$ ft, $\emptyset = 95^\circ$

2) $r = 28$ cm, $\emptyset = 45^\circ$

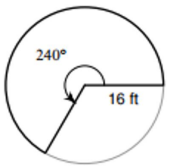
3) $r = 12$ m, $\emptyset = 85^\circ$

**Find area of a sector. Do not round.**

4)



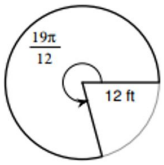

5)




6)




7)




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

8) $r = 22$ ft, $\emptyset = 60^\circ$

**Answer Key - www.testinar.com**

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1) $r = 15$ ft, $\emptyset = 95^\circ$

25 **ft**

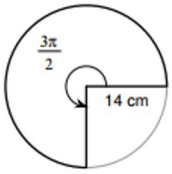
2) $r = 28$ cm, $\emptyset = 45^\circ$

22 **cm**

3) $r = 12$ m, $\emptyset = 85^\circ$

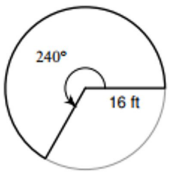
18 **m**

4)




147 π **cm**$^2$

5)



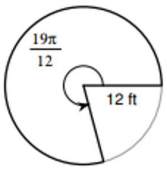

$\frac{512\,\pi}{3}$ **ft**$^2$

6)




$\frac{343\,\pi}{2}$ **in**$^2$

7)




114 π **ft**$^2$

8) $r = 22$ ft, $\emptyset = 60^\circ$

23 **ft**