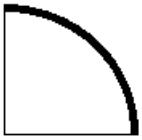
Name:

Date:

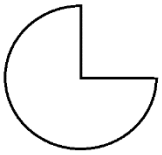
Arc Length and sector Area

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

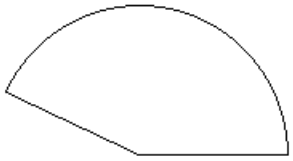
1) $r = 9\ m, \varphi = 45°$



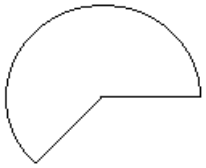
2) $r = 7\ m, \varphi = \frac{3\pi}{2}$



3) $r = 5\ m, \varphi = 150°$



4) $r = 10\ m, \varphi = \frac{5\pi}{4}$

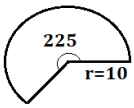


Find Area of a sector. Do not round.

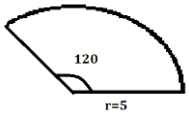
5)



6)



7)



8)



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Name:

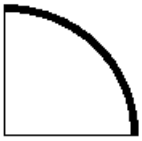
Date:

Arc Length and sector Area

Answers

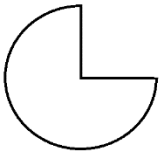
Find the length of each arc. Round your answers to the nearest tenth.

1) $r = 9\ m, \varphi = 45°$



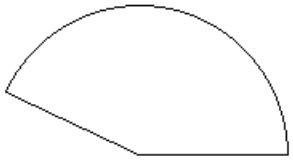
$L = 7$

2) $r = 7\ m, \varphi = \frac{3\pi}{2}$



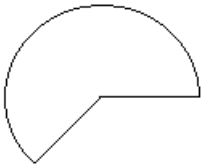
$L = 33$

3) $r = 5\ m, \varphi = 150°$



$L = 13$

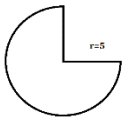
4) $r = 10\ m, \varphi = \frac{5\pi}{4}$



$L = 39$

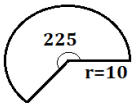
Find Area of a sector. Do not round.

5)



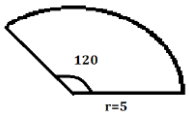
$S = 58.9$

6)



$S = 196.34$

7)



$S = 26.18$

8)



$S = 2.74$