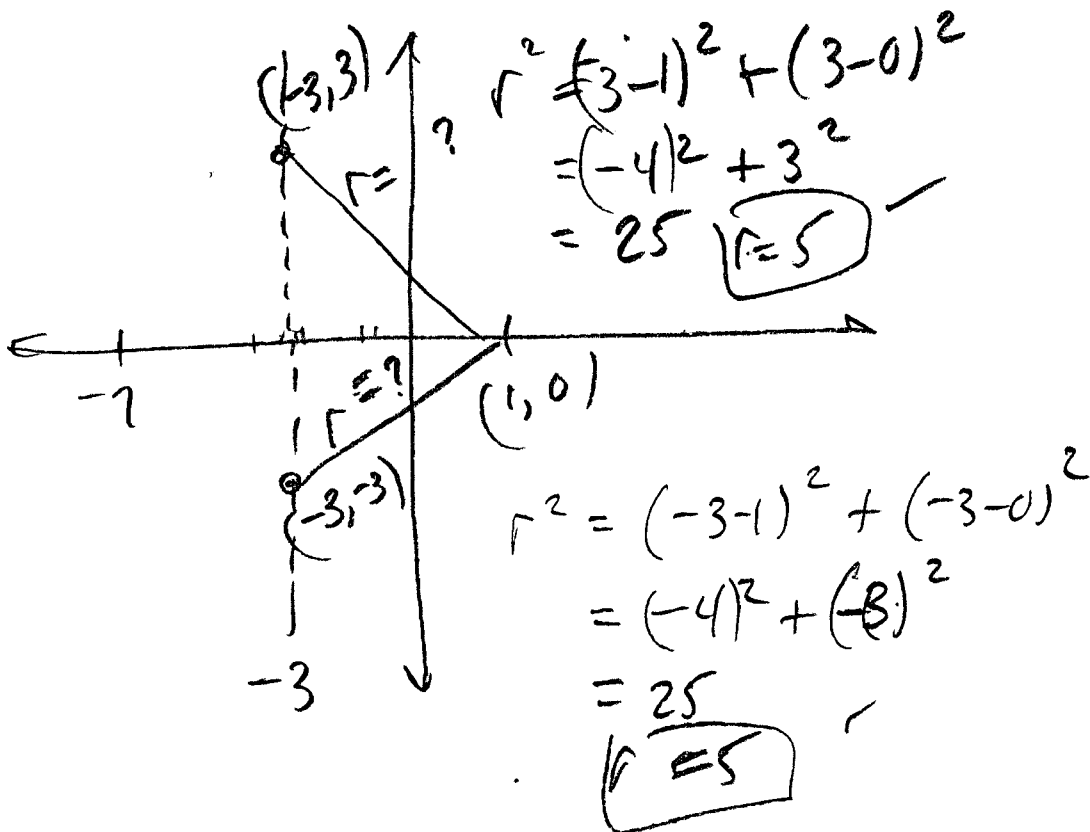


4/12 Algebra 2 Monday 3-4-13 Class Notes

- 57) A circle in the standard (x, y) coordinate plane intersects the x -axis at $(-7, 0)$ and $(1, 0)$. The radius is 5. Which could be the center?
- I. $(-3, -3)$
 - II. $(-3, 0)$
 - III. $(-3, 3)$

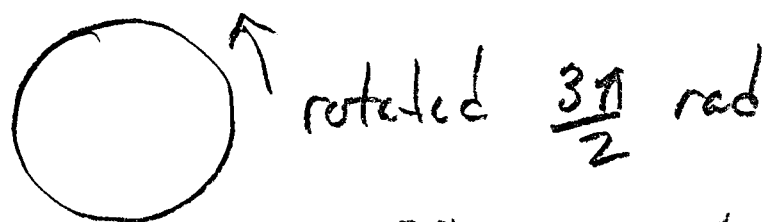
- A) I only B) II only C) III only
D) I and III only E) I, II and III



3.18.2

(53) Molly pushed a wheelbarrow,
in the distance it was pushed
the wheel rotated $\frac{3\pi}{2}$ radians.
The distance that Molly pushed
it is what fraction of the
circumference of the wheel.

see next pg

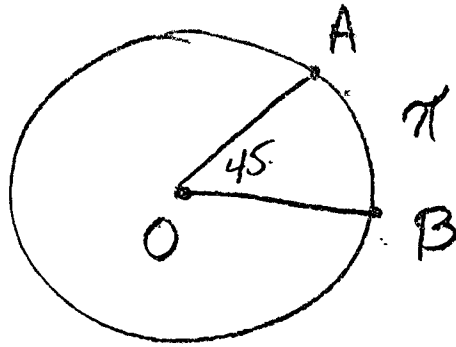


$$\therefore \frac{\frac{3\pi}{2}}{2\pi} = \frac{3\pi}{4\pi} = \frac{3}{4} \text{ PART OF 1 ROT}$$

$$C = 2\pi r \therefore \left(\frac{3}{4}\right) \cdot 2\pi r$$

↑
ANS

(50)



$$\angle AOB = 45^\circ$$

$$\widehat{AB} = \pi \text{ cm}$$

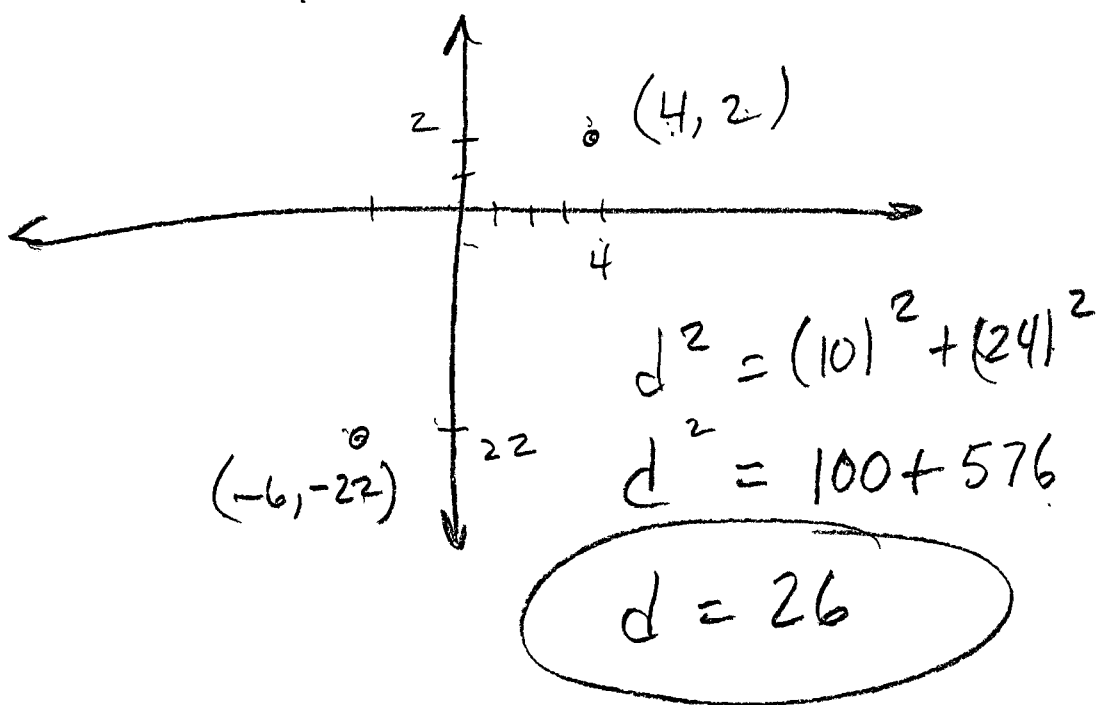
$$r = ?$$

$$\frac{45}{360} = \frac{1}{8} \quad \therefore \quad \frac{\pi}{2\pi r} = \frac{1}{8}$$

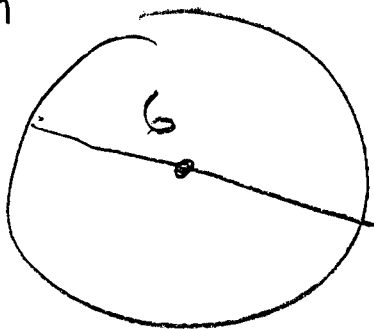
$$8\pi = 2\pi r$$

$$\boxed{4 = r}$$

- (46) Emerg. helo 2 mi. North and 4 mi E. of city center. Emerg. 22 mi S. and 6 mi W. of CC.
 d (miles) between helo & Emerg.



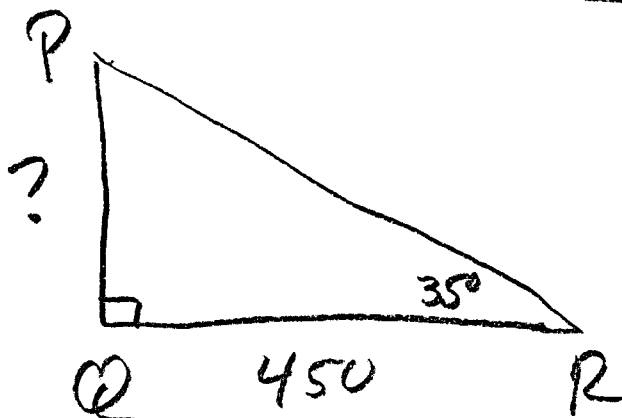
(41) dia = 6m
A = ?



$$r = 3$$

$$A = 9\pi \text{ cm}^2$$

(37)



(A) $450 \sin 35^\circ$

(B) $450 \tan 35^\circ$

(C) $\frac{450}{\sin 35^\circ}$

(D) $\frac{450}{\cos 35^\circ}$

(E) $\frac{450}{\tan 35^\circ}$