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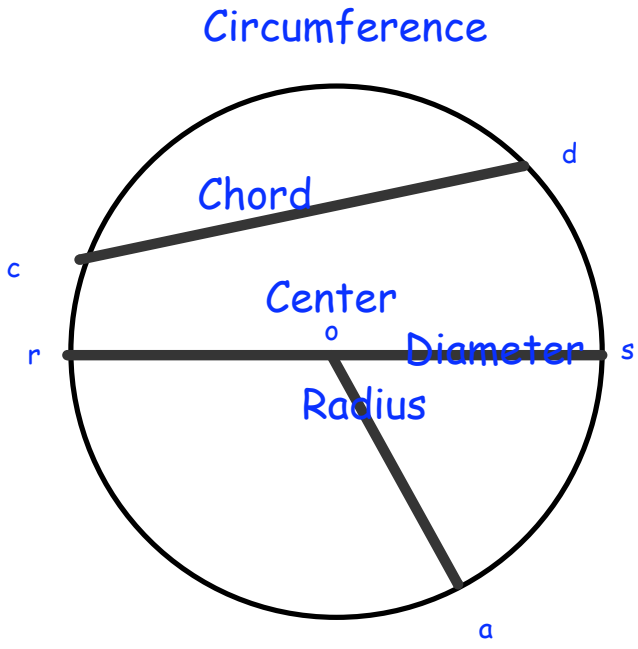
Chapter 9.4 Pi and the circle

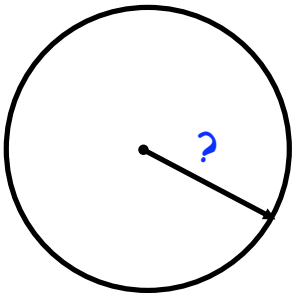


Secret formula

$C = \text{pi} \cdot \text{Dia}$

Question:

If the distance around a circle is 34.7 inches. What is the radius of that circle?



$$\frac{34.7}{\pi} = \frac{\pi \cdot D}{\pi}$$

$$\frac{34.7}{2\pi} = \frac{D}{2}$$

$$5.5\ldots = r$$

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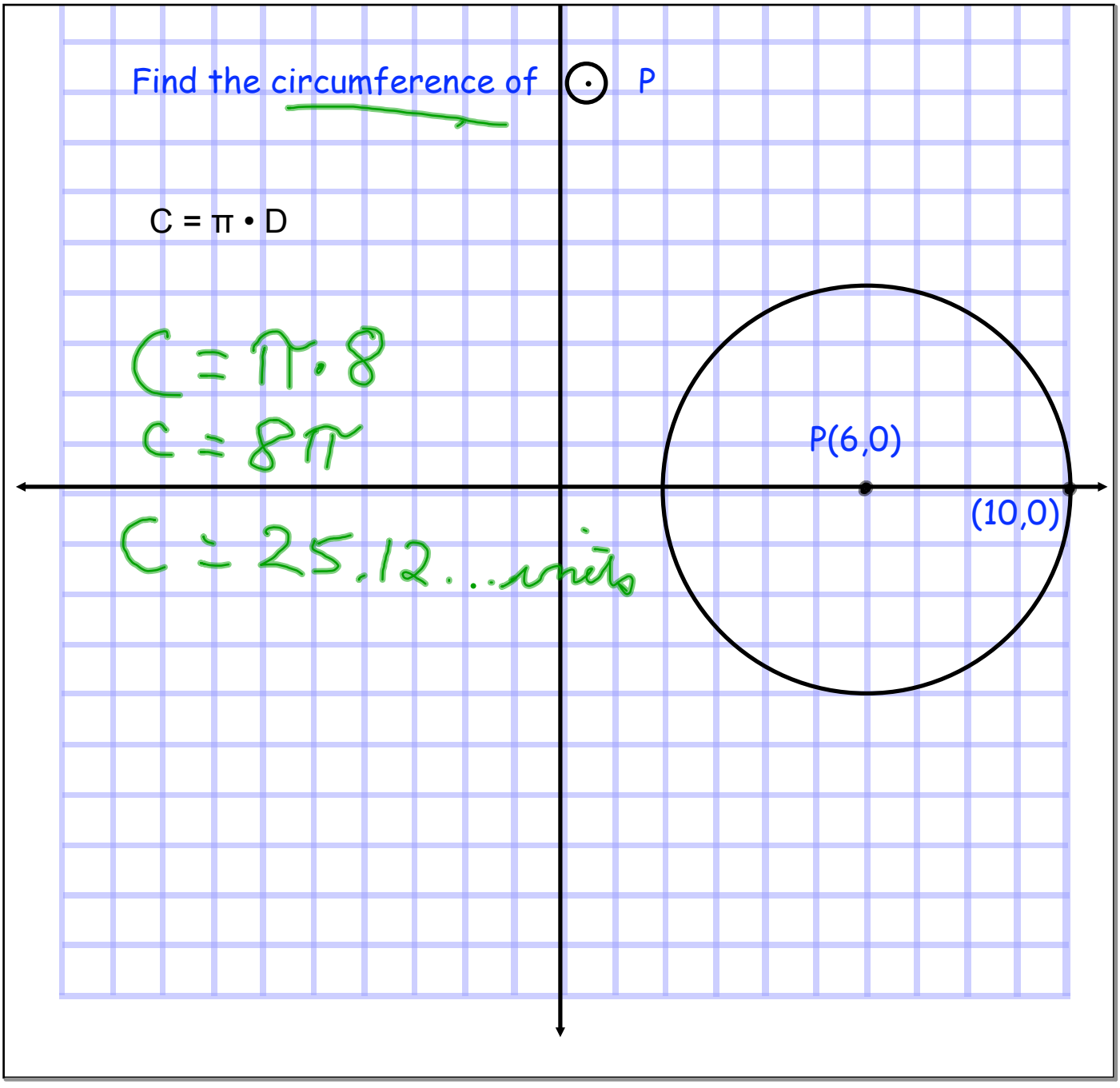

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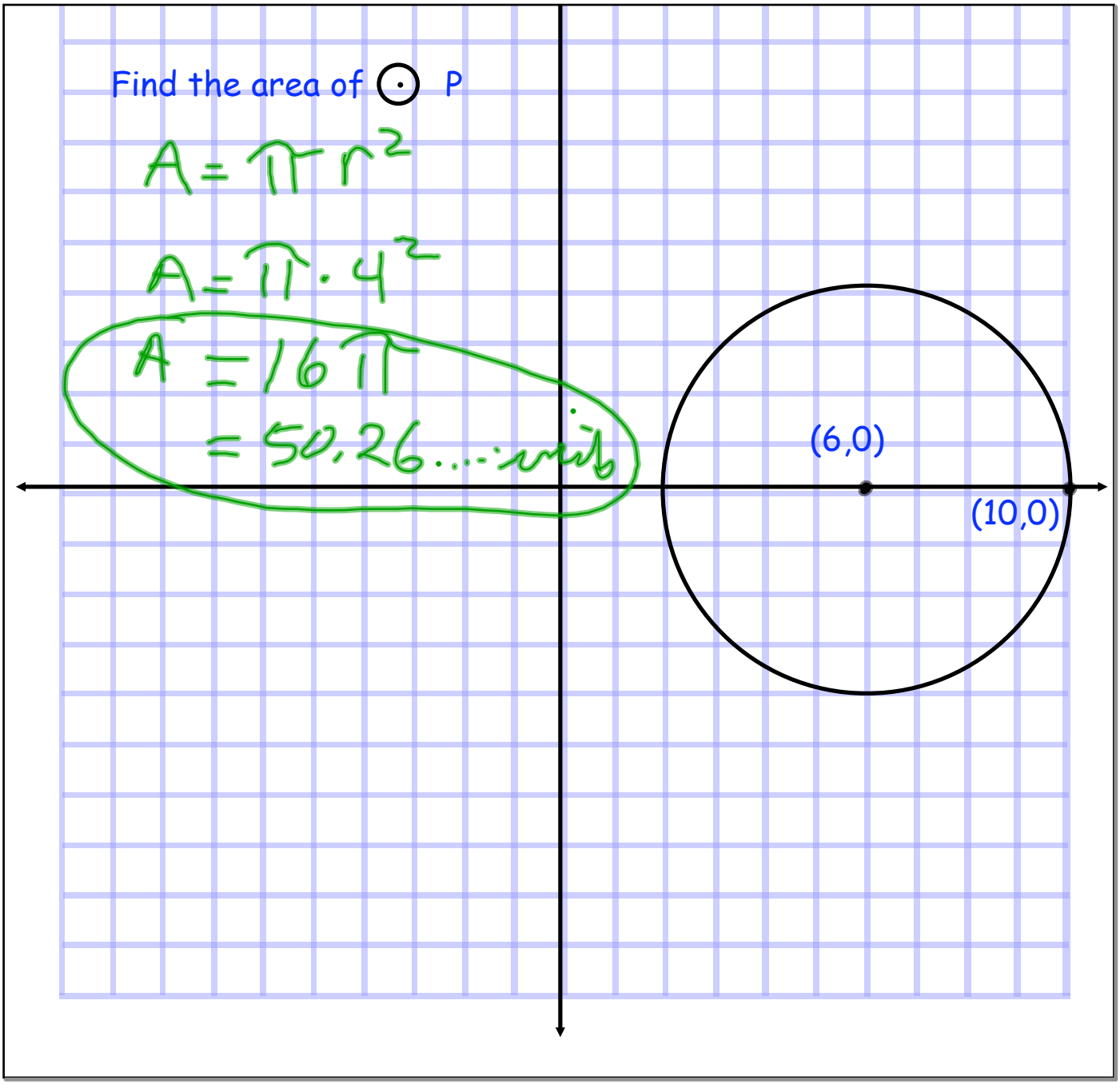
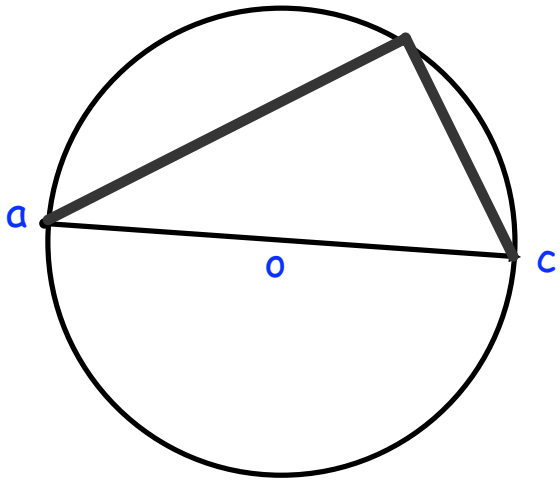


Right angle property of circles

Draw a line from point a to some point on the circle then to point c. What angle is formed?



$C = \pi \cdot D$

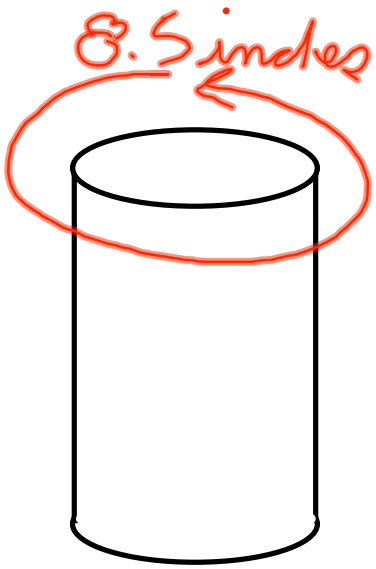
16) $8.5 = \pi \cdot D$

$\frac{8.5}{\pi} = \frac{\pi \cdot D}{\pi}$

$\frac{8.5}{\pi} = D$

or

$2.7\text{in} \approx D$



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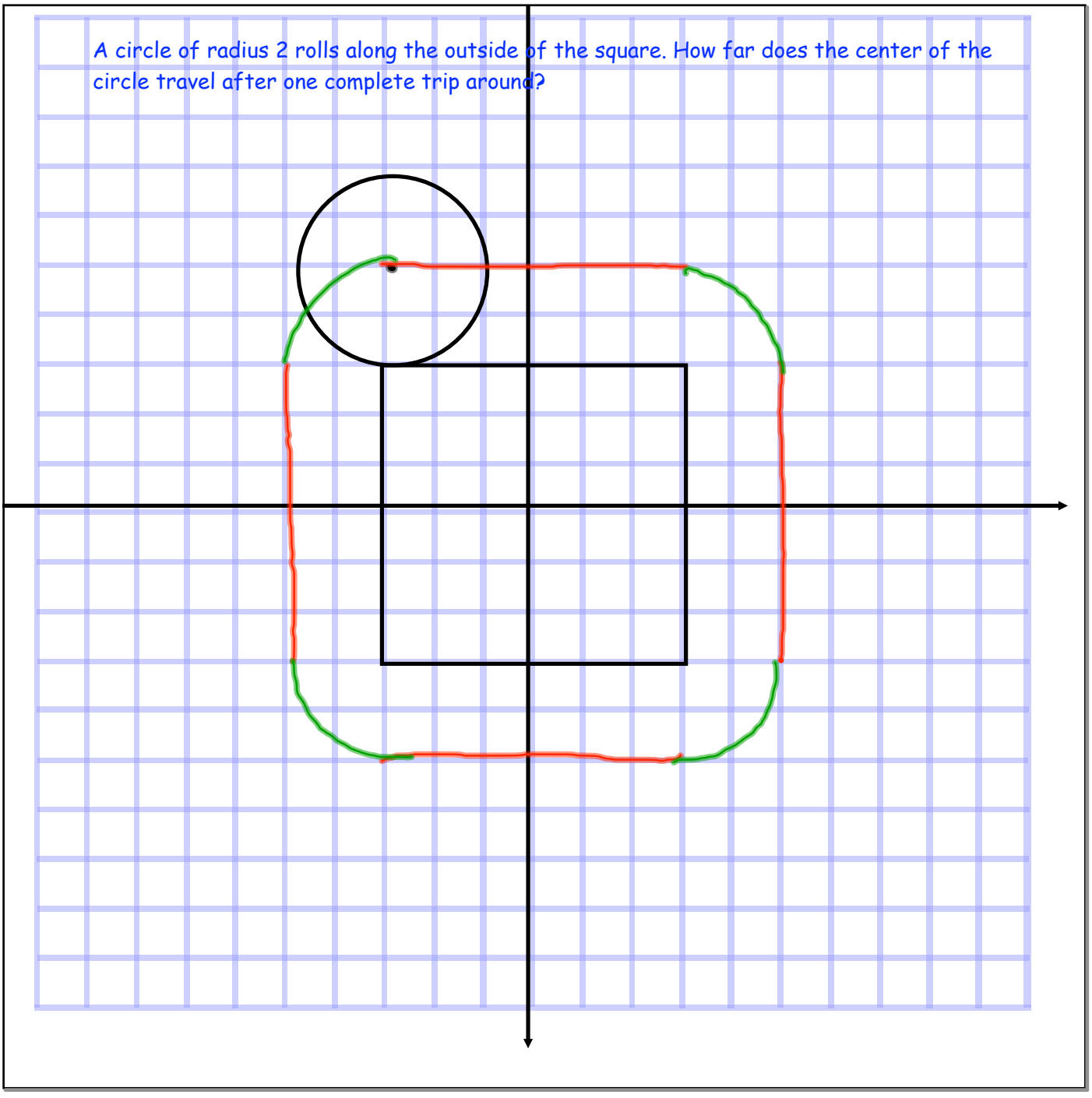

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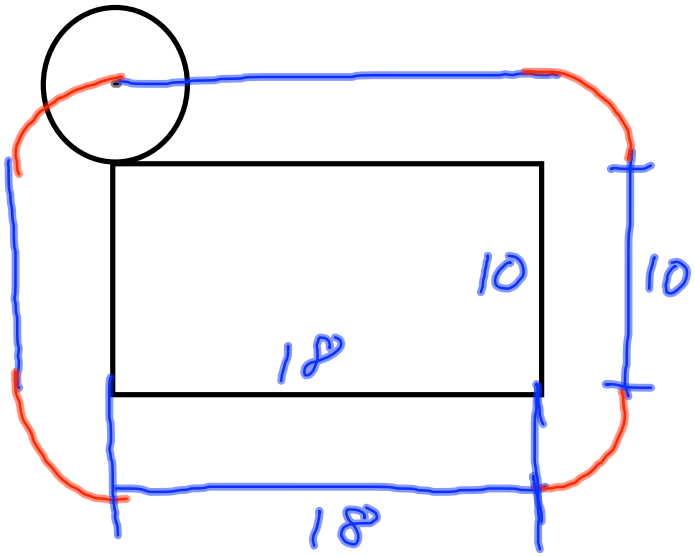
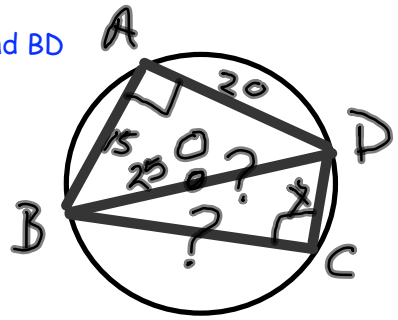
15)



20) Use pythagorean theorem to find BD

$\overline{BD} = 25$



How to find BC

$7^2 + x^2 = 25^2$

$49 + x^2 = 625$

$-49 \qquad -49$

$x^2 = 576$

$x = 24$

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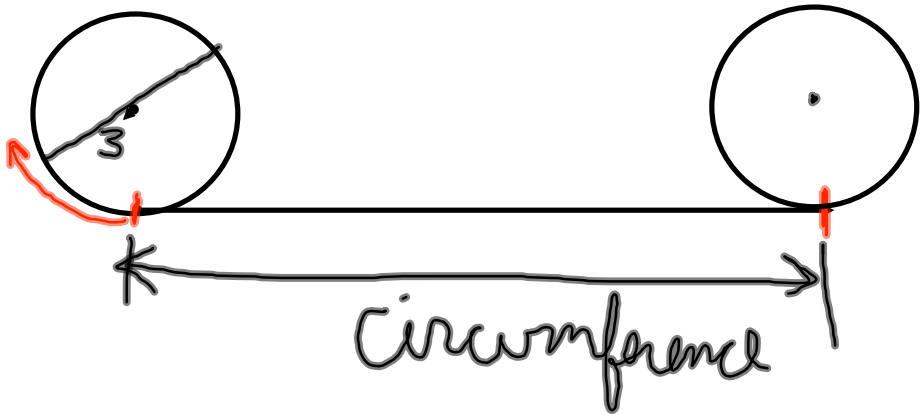
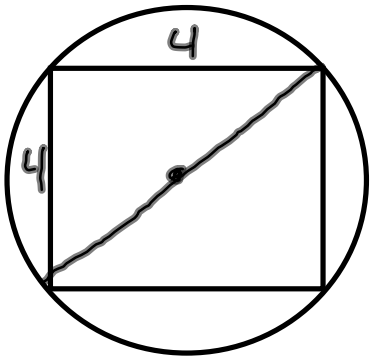
21)



22)

a) = 5.66 in

b) = 25.16 in^2



a) $4^2 + 4^2 = x^2$

$32 = x^2$

$5.66 = x$

c) probability = $\frac{\text{Area of } \square}{\text{Area of } \bigcirc}$

(change answer to a percent.)

b) $A_{\odot} = \pi(2.83)^2$

$A_{\odot} = \pi \cdot 8$

$A_{\odot} = 25.16$

23)

add up red & blue distances