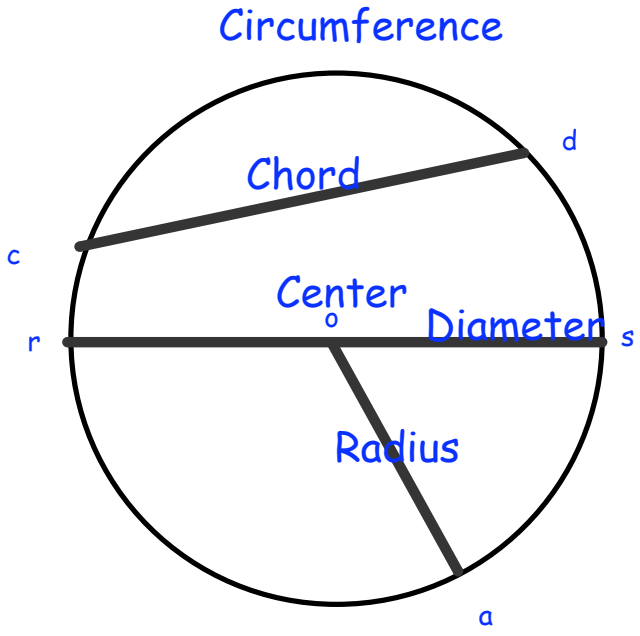
Chapter 9.4 Pi and the circle

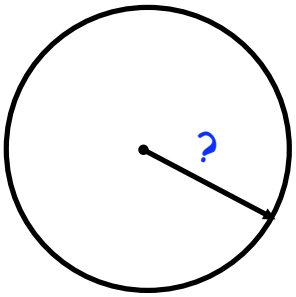


Secret formula

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

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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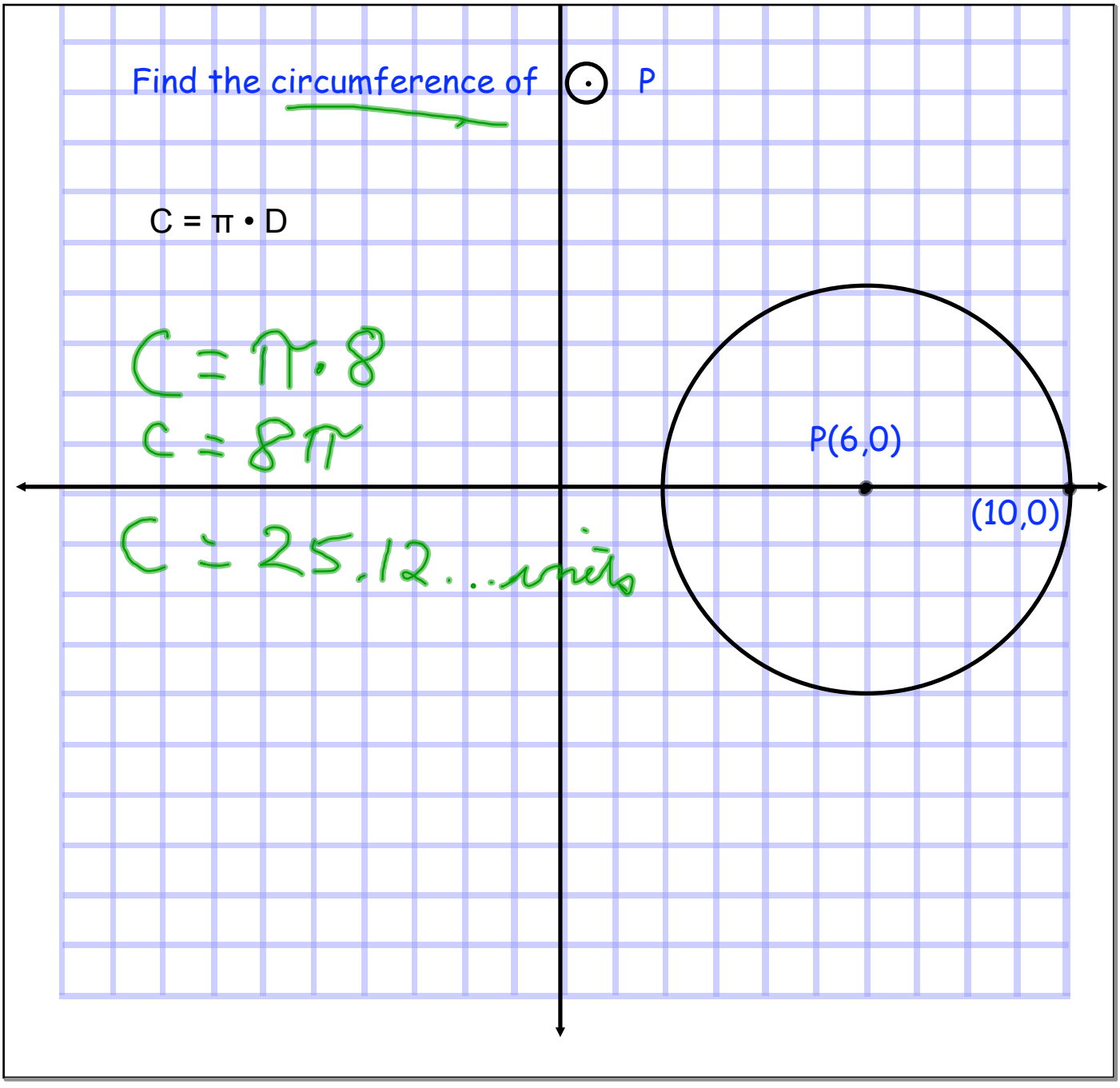

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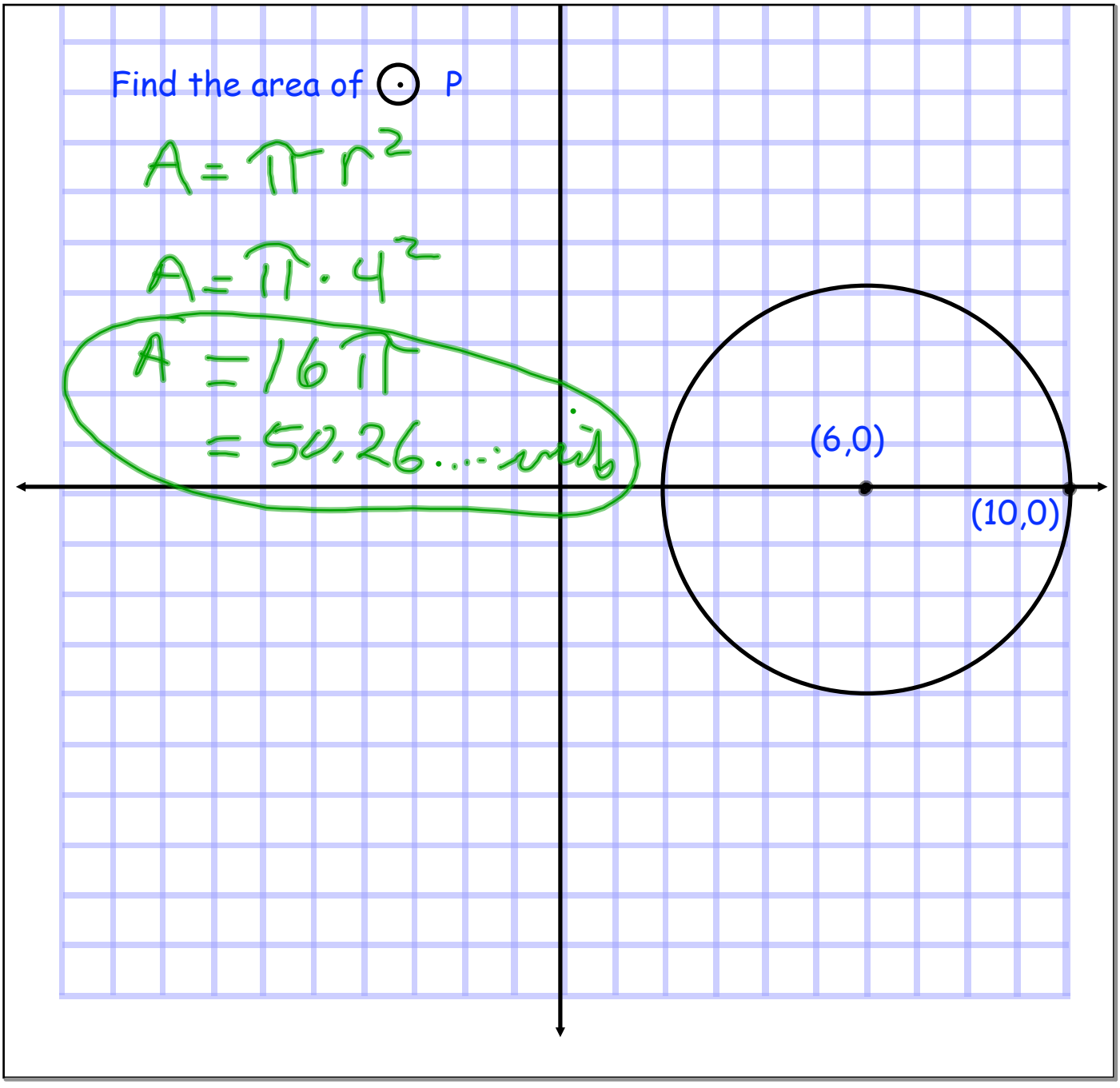
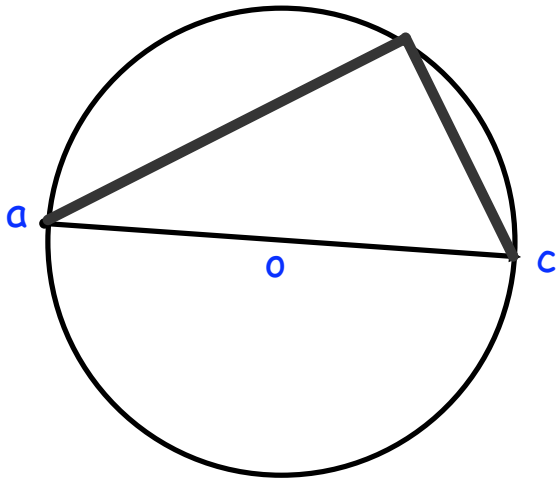


Right angle property of circles

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



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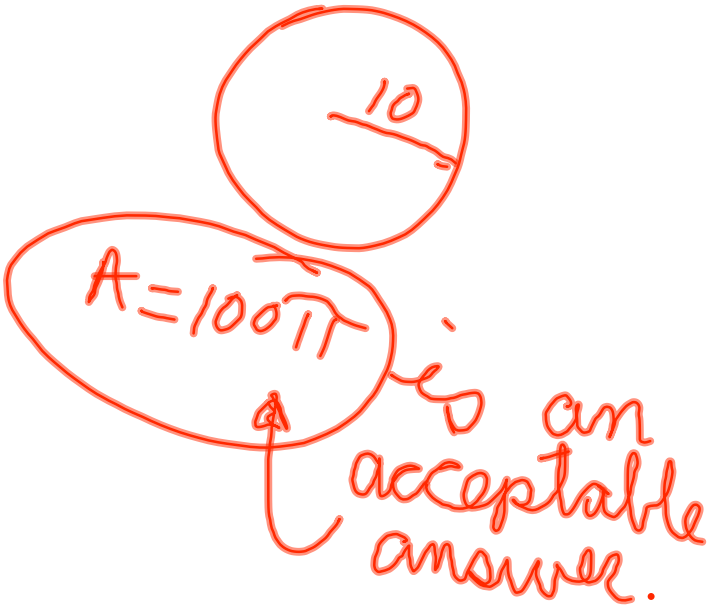
11-19 skip #15 for today.



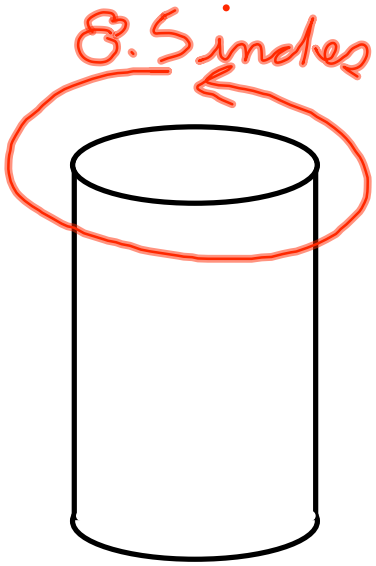
16) $8.5 = \pi \cdot D$

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

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

or

$2.7\text{in} \approx D$



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A circle of radius 2 rolls along the outside of the square. How far does the center of the circle travel after one complete trip around?