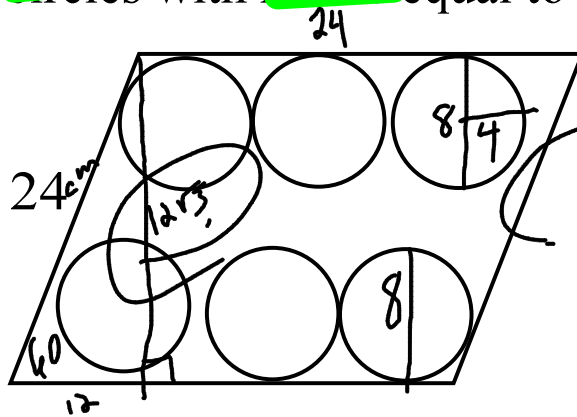


Find the probability that a point randomly picked in this rhombus with a 120° angle will land on one of the 6 congruent circles with radii equal to 4 cm.



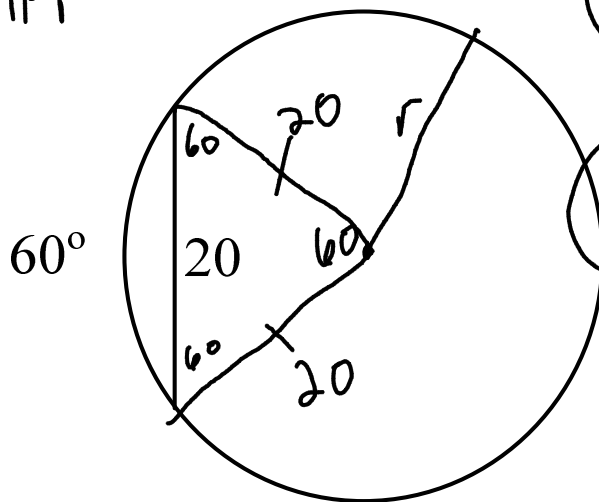
$$\frac{A(\text{circle})(6)}{A(\text{rhombus})}$$

$$\frac{16\pi \cdot 6}{24 \cdot 12\sqrt{3}}$$

$$= \frac{96\pi}{288\sqrt{3}} = \frac{\pi}{3\sqrt{3}} = .60$$

Find the area of this circle.

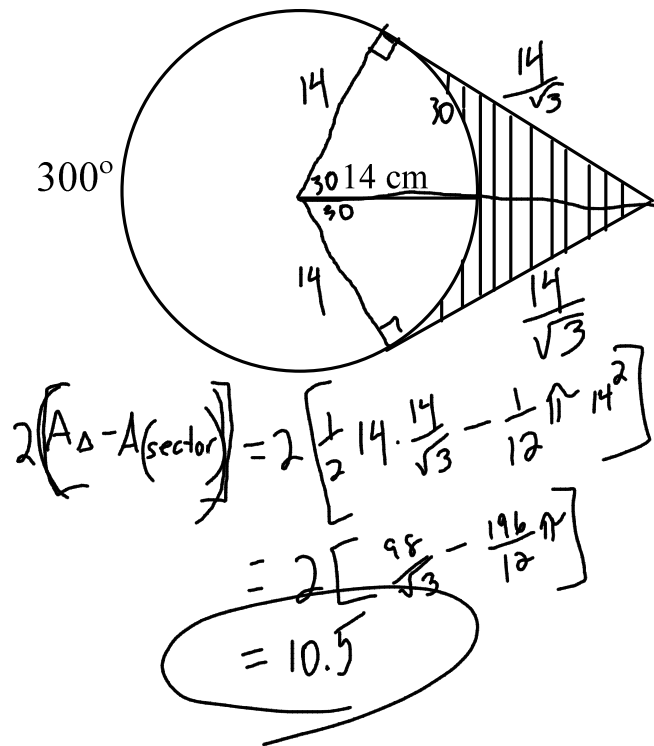
$$A = \pi r^2$$



$$A = 400\pi$$

$$1256.6$$

Find the area of the striped region.



If a triangle with area 20 shares a base with triangle with area 140, what is the ratio of their heights?

If bases are equal, ratio of area = ratio of heights.

$$\frac{20}{140} = \frac{1}{7}$$

Find the area between the circle and the hexagon.

$$A(o) - A(hex)$$

$$\pi 8^2 - \frac{1}{2} 48 \cdot 4\sqrt{3}$$

$$64\pi - 96\sqrt{3}$$

$$= 34.8$$

