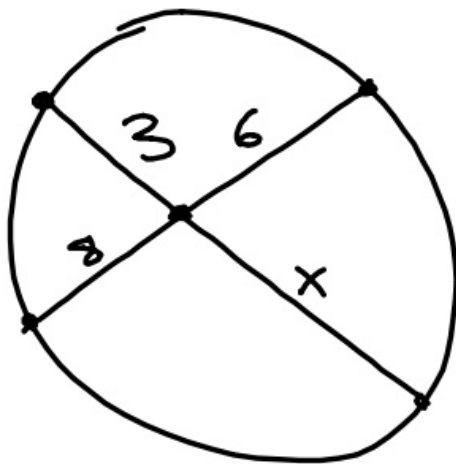


2-28-19 5th Geo

①

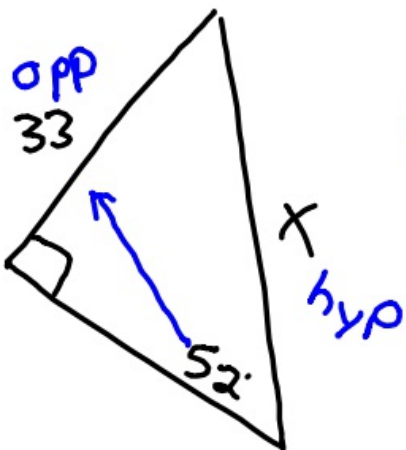


$$3 \cdot x = 6 \cdot 8$$

$$\frac{3x}{3} = \frac{48}{3}$$

$$x = 16$$

②



SOH
CAH
TOA

$$\frac{\sin 52^\circ}{1} = \frac{33}{x}$$

$$\frac{x \cdot \cancel{\sin 52^\circ}}{\cancel{\sin 52^\circ}} = \frac{33}{\cancel{\sin 52^\circ}}$$

$$x \approx 41.9$$

3

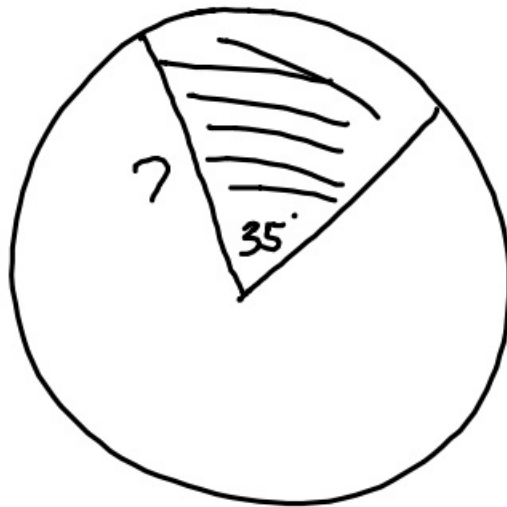


SOH
CAH
TOA

$$\cancel{\sin^{-1}} \theta = \sin^{-1} \frac{33}{44}$$

$$\theta \approx 48.6^\circ$$

4



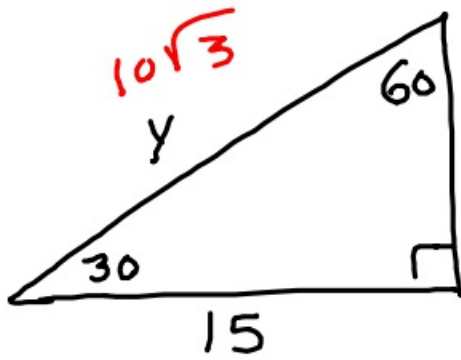
$$\text{Area} = \pi \cdot r^2$$
$$\pi \cdot 7^2$$

$$49\pi$$

$$\frac{35}{360} \text{ of } 49\pi$$

$$\frac{35}{360} \cdot 49\pi \approx 15.0$$

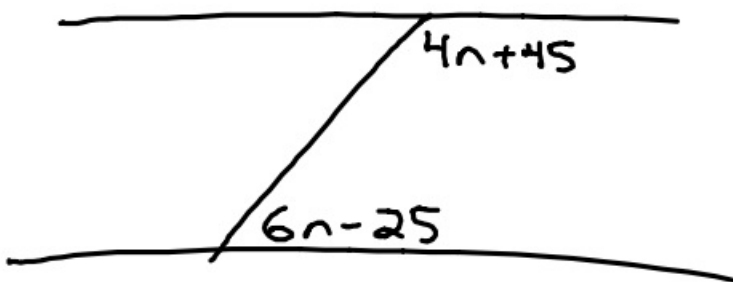
⑤



$$\frac{15}{\sqrt{3}} = 5\sqrt{3}$$

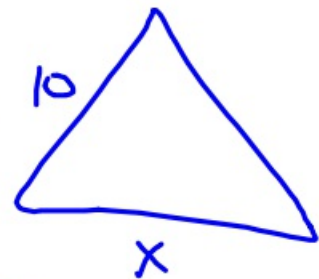
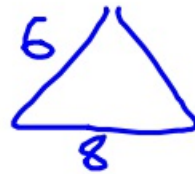
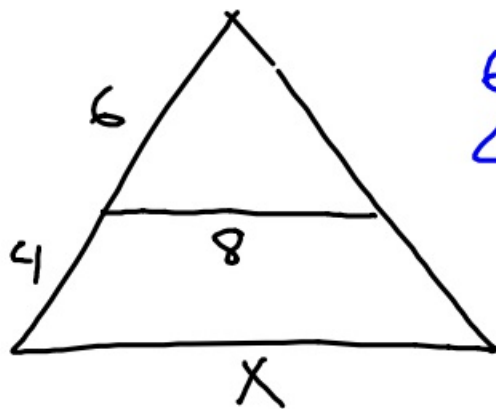
$$\frac{15}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{5\sqrt{3}}{1}$$

⑥



$$6n - 25 + 4n + 45 = 180$$

⑦

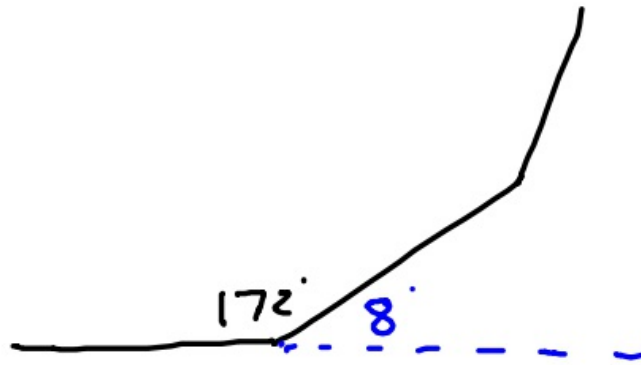


$$\frac{6}{10} = \frac{8}{X}$$

$$6X = 80$$

$$X = 13\frac{1}{3}$$

⑧



$$\text{ext } \angle = \frac{360}{n}$$

$$n = \frac{360}{\text{ext. } \angle}$$

$$n = \frac{360}{8}$$

$$n = 45$$

⑩ \perp to $y = \frac{1}{2}x - 5$ (4,10)

$$m = \frac{1}{2} \therefore \perp m = -2$$

$$y - y_1 = m(x - x_1)$$

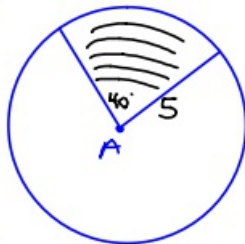
$$y - 10 = -2(x - 4)$$

$$\begin{array}{r} y - 10 = -2x + 8 \\ +10 \qquad \qquad +10 \end{array}$$

$$y = -2x + 18$$

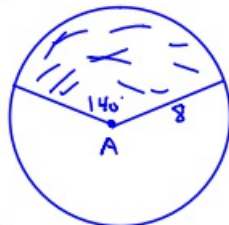
New practice

① ○A



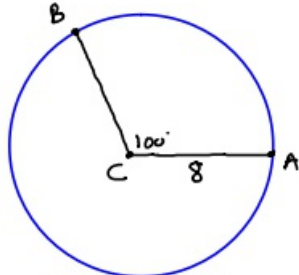
$$\left(\frac{40}{360}\right) \pi \cdot 5^2$$
$$8.7$$

② ○A



$$\left(\frac{140}{360}\right) \pi \cdot 8^2$$
$$\approx 78.2 \text{ in}^2$$

③ ○C



What is length of \widehat{AB} ?

$\frac{100}{360}$ of total distance around

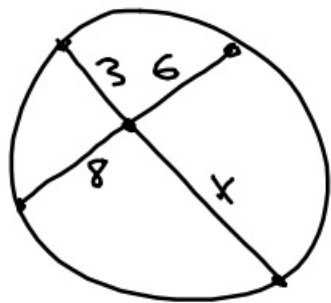
$$\frac{100}{360} = \text{Circumference}$$

$$\frac{100}{360} \cdot \pi \cdot 16 \quad C = \pi \cdot d$$

$$\approx 14.0$$

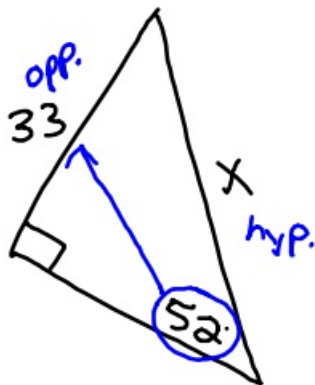
2-28-19 6th Geo

①



$$\begin{aligned}3 \cdot x &= 6 \cdot 8 \\3x &= 48 \\x &= 16\end{aligned}$$

②



SOH
CAH
TOA

$$\frac{\sin 52^\circ}{1} = \frac{33}{x}$$

$$\frac{x \cdot \cancel{\sin 52^\circ}}{\cancel{\sin 52^\circ}} = \frac{33}{\cancel{\sin 52^\circ}}$$

$$x \approx 41.9$$

③

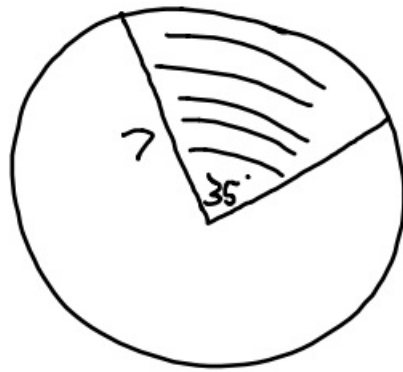


SOH
CAH
TOA

$$\cancel{\sin}^{-1} \sin \theta = \sin^{-1} \frac{33}{44}$$

$$\theta \approx 48.6^\circ$$

4



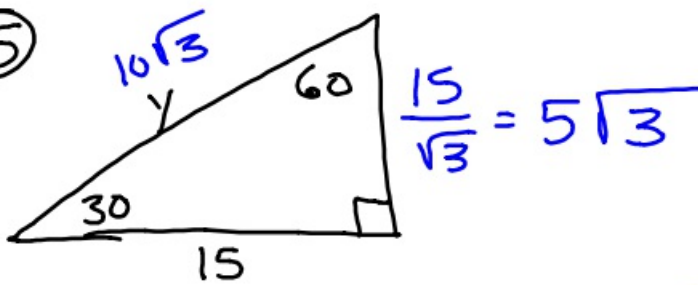
$$A = \pi \cdot r^2$$

$\frac{35}{360}$ of total area

$$\left(\frac{35}{360}\right) \cdot \pi \cdot 7^2$$

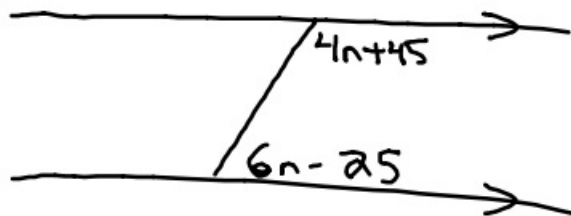
$$15.0$$

5



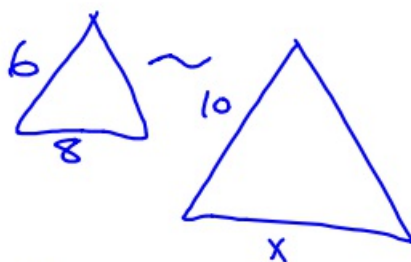
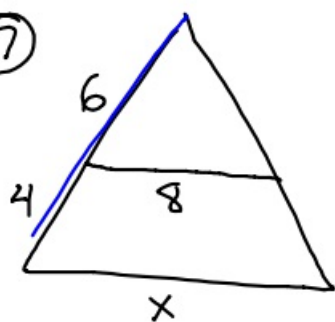
$$\frac{15}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{5\sqrt{3}}{1}$$

6



$$6n - 25 + 4n + 45 = 180$$

⑦

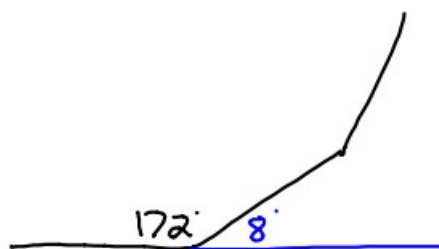


$$\frac{6}{10} = \frac{8}{x}$$

$$6x = 80$$

$$x = 13\frac{1}{3}$$

⑧



$$\text{ext } \angle = \frac{360}{n}$$

$$n = \frac{360}{\text{ext } \angle}$$

$$n = \frac{360}{8} = 45$$

⑩ \perp to $y = \frac{1}{2}x - 5$ $(4, 10)$

\nearrow
 $m = \frac{1}{2} \therefore \perp m = -2$

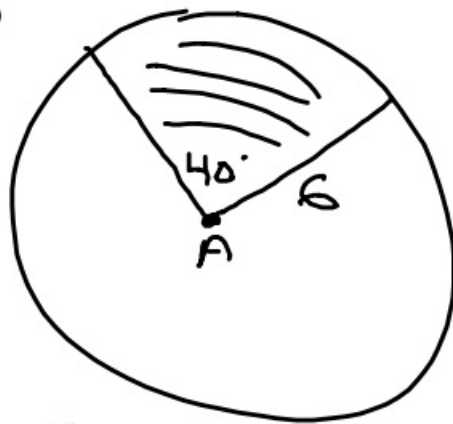
$$y - y_1 = m(x - x_1)$$

$$y - 10 = -2(x - 4)$$

$$\begin{array}{r} y - 10 = -2x + 8 \\ +10 \qquad +10 \\ \hline y = -2x + 18 \end{array}$$

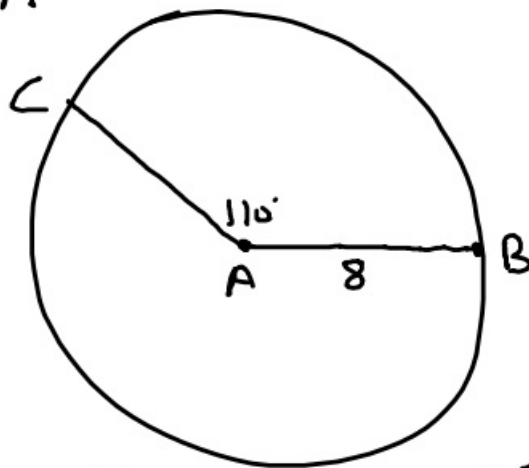
New problem

① ○A



$$\left(\frac{40}{360}\right) \cdot \pi \cdot 6^2$$
$$\approx 12.6 \text{ in}^2$$

② ○A



$$C = \pi \cdot d$$

What is the length of \widehat{CB} ?

$\frac{110}{360}$ of the total circumference

$$\left(\frac{110}{360}\right) \cdot \pi \cdot 16$$

$$\approx 15.4 \text{ in}$$