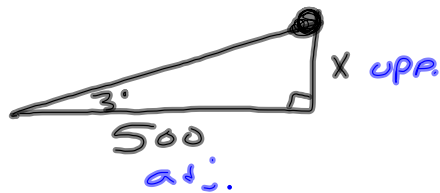


3-5-14

5th Geo

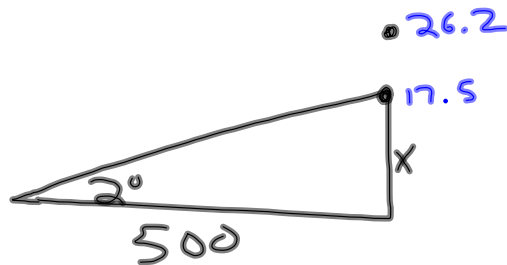
Ch. 8 Short Answer section
of Test

⑧



$$\frac{\tan 3^\circ}{1} = \frac{x}{500}$$

$$x \approx 26.2 \text{ ft.}$$



$$\begin{array}{r} 26.2 \\ - 17.5 \\ \hline 8.7 \end{array}$$

$$\frac{\tan 2^\circ}{1} = \frac{x}{500}$$

$$x \approx 17.5$$

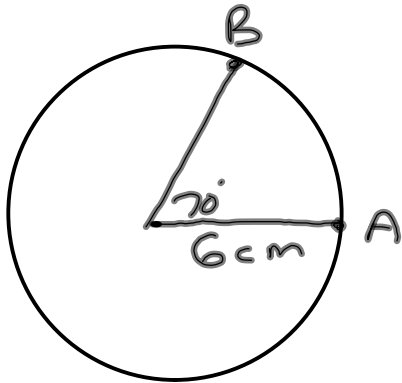
E.C.

$$\frac{2}{5+\sqrt{3}} \cdot \frac{5-\sqrt{3}}{5-\sqrt{3}} = \frac{10-2\sqrt{3}}{22}$$

$$(5+\sqrt{3})(5-\sqrt{3}) = \frac{5-\sqrt{3}}{11}$$

$$25 - 5\sqrt{3} + 5\sqrt{3} - 3 = 22$$

9-1 Circles

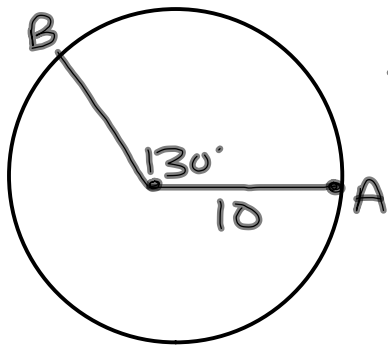


$$\widehat{AB} =$$

fractional. Circumf.
part

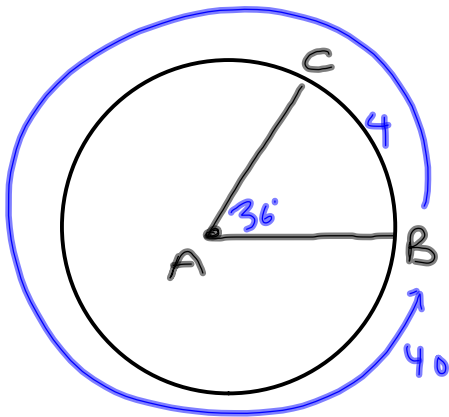
$$\frac{70}{360} \cdot \pi \cdot 12$$

$$\approx 7.3$$



$$\widehat{AB} = \frac{130}{360} \cdot 20\pi$$

$$\approx 22.7$$



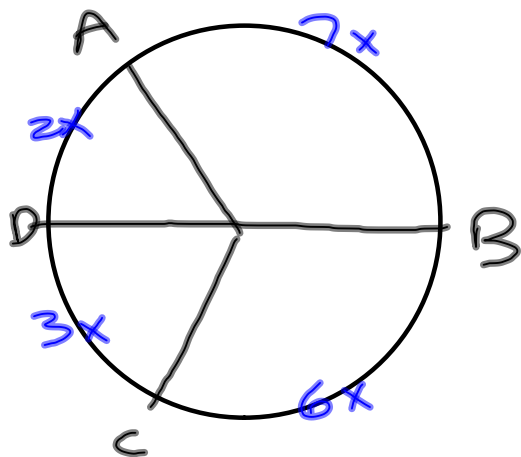
$$\widehat{CB} = 4 \text{ cm}$$

Circumference
of
Circle = 40

$$\angle CAB = ?$$

$$\frac{4}{40} = \frac{1}{10} \text{ of } 360^\circ$$

$$= 36^\circ$$



$$2x + 7x + 6x + 3x = 360$$

$$18x = 360$$

$$x = 20$$

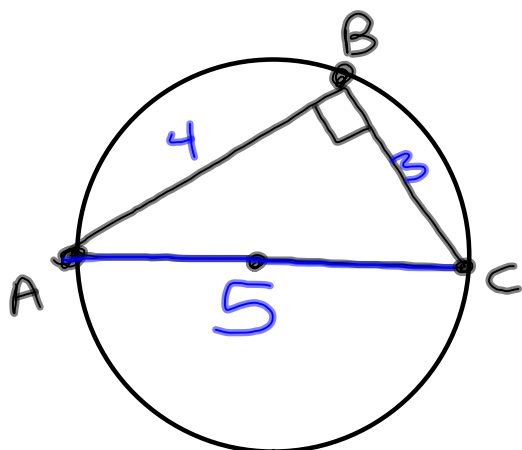
$$\widehat{AB} = 7x$$

$$\widehat{BC} = 6x$$

$$\widehat{CD} = 3x$$

$$\widehat{DA} = 2x$$

What is x ?



$$3^2 + 4^2 = c^2$$

$$c = 5$$

If $AB = 4$ and $BC = 3$, what is exact circumference of circle?

$$C = \pi \cdot d$$

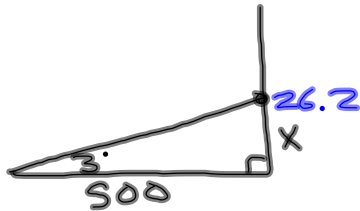
$$= \pi \cdot 5$$

$$5\pi$$

3-5-14
6th Geo

Ch. 8 Short Answer Part of
Test

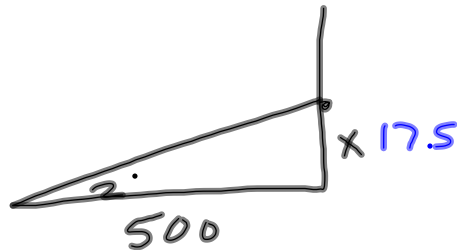
8



$$\frac{\tan 3^\circ}{1} = \frac{x}{500}$$

$$x = 500 \cdot \tan 3^\circ$$

$$x \approx 26.2$$



$$\frac{\tan 2^\circ}{1} = \frac{x}{500}$$

$$x \approx 17.5$$

$$\begin{array}{r} 26.2 \\ - 17.5 \\ \hline 8.7 \end{array}$$

10

$$40 = 30 - 27 \cdot \tan \theta$$

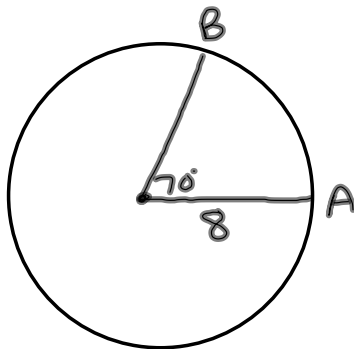
-30 -30

$$\frac{10}{-27} = \frac{-27 \cdot \tan \theta}{-27}$$

$$\tan^{-1}\left(-\frac{10}{27}\right) = \tan^{-1} \tan \theta$$

$$\theta \approx -20.3^\circ$$

9-1

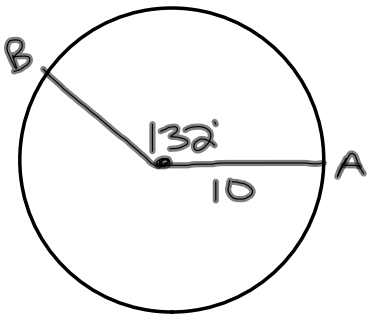


\widehat{AB} 's length

Fractional \cdot Circumf.
part

$$\frac{70}{360} \cdot \pi \cdot 16$$

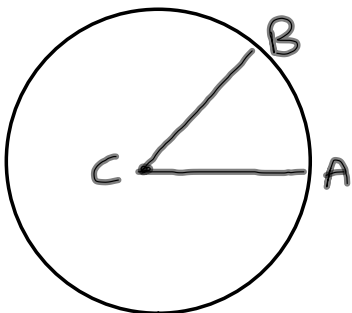
$$\approx 9.8$$



\widehat{AB} 's length = ?

$$\frac{132}{360} \cdot \pi \cdot 20$$

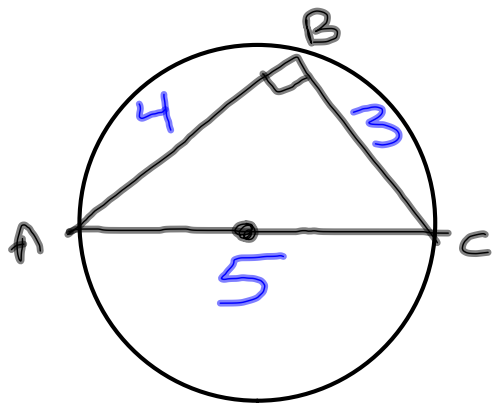
$$\approx 23 \text{ cm}$$



If $\widehat{AB} = 4 \text{ cm}$
and circumference
is 40 cm , what
is $\angle ACB$?

$$\frac{4}{40} = \frac{1}{10} \text{ of all the way around}$$

$$\frac{1}{10} \text{ of } 360^\circ = 36^\circ$$



If $AB = 4\text{ cm}$
and $BC = 3\text{ cm}$,
what is exact
circumference of circle?

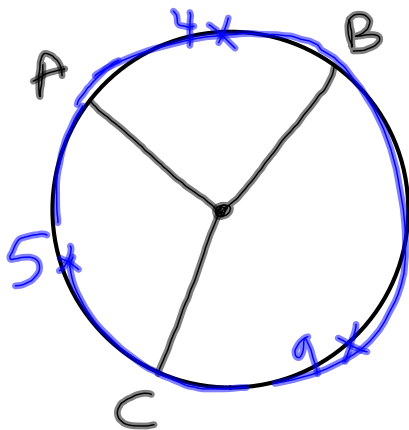
$$c^2 = a^2 + b^2$$

$$c^2 = 4^2 + 3^2$$

$$c = 5$$

$$C = \pi \cdot d$$

$$= 5\pi$$



$$4x + 9x + 5x = 360^\circ$$

$$18x = 360$$

$$x = 20$$

If $\widehat{AB} = 4x$
 $\widehat{BC} = 9x$
 $\widehat{AC} = 5x$,
what is x ?