$$
\begin{aligned}
& 3-5-14 \\
& 5 \approx \text { Geo }
\end{aligned}
$$

Ch. 8 Short Answer section of Test
(8)


$$
\begin{aligned}
& \frac{\tan 3^{\circ}}{1}=\frac{x}{500} \\
& x \approx 26.2 \mathrm{ft}
\end{aligned}
$$


E.C.

$$
\begin{aligned}
\frac{2}{5+\sqrt{3}} \cdot \frac{5-\sqrt{3}}{5-\sqrt{3}} & =\frac{10-2 \sqrt{3}}{22} \\
(5+\sqrt{3})(5-\sqrt{3}) & =\frac{5-\sqrt{3}}{11} \\
25-3 & =22
\end{aligned}
$$

9-1 Circles


$$
\widehat{A B}=
$$

fraction n
part

$$
\begin{aligned}
& \frac{70}{360} \cdot \pi \cdot 12 \\
\approx & 7.3
\end{aligned}
$$



$$
\begin{aligned}
& \overparen{C B}=4 \mathrm{~cm} \\
& \text { Circumference } \\
& \text { of }=40^{\circ} \\
& \text { circle }
\end{aligned}
$$

$$
\begin{aligned}
\frac{4}{40} & =\frac{1}{10} \text { of } 360^{\circ} \\
& =36^{\circ}
\end{aligned}
$$



$$
\begin{gathered}
2 x+7 x+6 x+3 x=360 \\
18 x=360^{\circ} \\
x=20^{\circ}
\end{gathered}
$$

$$
\begin{aligned}
& \overparen{A B}=7 x \\
& \overparen{B C}=6 x \\
& \overparen{C D}=3 x \\
& \overparen{A D}=2 x
\end{aligned}
$$



If $A B=4$ and $B C=3$, what is exact circumference of circle?
$C=\pi \cdot d$ $=\pi \cdot 5$
$5 \pi$

$$
\begin{aligned}
& 3-5-14 \\
& 6^{+-} \text {Geo }
\end{aligned}
$$

Ch. 8 Sholt Answer Palt of Test
(8)


$$
\begin{aligned}
& \frac{\tan 3}{1}=\frac{x}{500} \\
& x=500 \cdot \tan 3 \\
& x \approx 26.2
\end{aligned}
$$

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

$$
x \approx 17.5
$$

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

(10)

$$
\text { 0) } \begin{aligned}
40 & =30-27 \cdot \tan \theta \\
-30 & -30 \\
\frac{10}{-27} & =\frac{-27 \cdot \tan \theta}{-27} \\
\tan ^{-1}\left(\cdot \frac{10}{27}\right) & =\tan ^{-1} \tan \theta \\
\theta & \approx-20.3
\end{aligned}
$$


$\overparen{A B}$ 's length

$$
\begin{aligned}
& \text { fractions } \\
& \text { port } \text {. Circomf. }
\end{aligned}
$$

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

$\approx 9.8$

$A B^{\prime} s$ length $=$ ?

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

$\approx 23 \mathrm{~cm}$


If $\widehat{A B}=4 \mathrm{~cm}$ and circumference is 40 cm , what is $\angle A C B$ ?

$$
\begin{gathered}
\frac{4}{40}=\frac{1}{10} \text { of all the way } \\
\text { around } \\
\frac{1}{10} \text { of } 360^{\circ}=36^{\circ}
\end{gathered}
$$



If $A B=4 \mathrm{~cm}$
and $B C=3 \mathrm{~cm}$, what is exalt
$c^{2}=a^{2}+b^{2} \quad$ Ciccumfermencof circle?

$$
\begin{array}{rl}
c^{2}=4^{2}+3^{2} & C=\pi \cdot d \\
c=5 & \\
c & =5 \pi
\end{array}
$$



$$
\begin{gathered}
4 x+9 x+5 x=360^{\circ} \\
18 x=360 \\
x=20
\end{gathered}
$$

If $\overparen{A B}=4 x$

$$
\begin{aligned}
& \overparen{B C}=9 x \\
& \overparen{A C}=5 x,
\end{aligned}
$$

whet is $x$ ?

