Solve the following System:

$$
\begin{aligned}
& -3 x-3 y=3 \quad-3 x-3(-5 x-17)=3 \\
& y=-5 x-17 \quad \lambda \quad-3 x+15 x+51=3 \\
& \begin{array}{l}
V \\
y=-5(-4)-17 \\
y=20-17 \\
y=3
\end{array} \quad \begin{array}{l}
12 x+51=3 \\
-51-51 \\
\frac{12 x=-48}{12} \\
x=4 \\
x=-4 \\
y=3
\end{array} \quad(-4,3)
\end{aligned}
$$

## Homework Check

1. $d=5 \mathrm{~cm}$
2. $C=10 \pi \mathrm{~cm}$
3. $r=\frac{12}{\pi} \mathrm{~m}$
4. $C=5.5 \pi$ or $\frac{11 \pi}{2} \mathrm{~m}$
5. $C=12 \pi \mathrm{~cm}$
6. $d=46 \mathrm{~m}$
7. $C \approx 84.8 \mathrm{in}$.
8. 565 ft
9. $C=6 \pi \mathrm{~cm}$
10. 16 in
11. $\approx 4398 \mathrm{~km} / \mathrm{h}$
12. $\approx 11 \mathrm{~m} / \mathrm{s}$
13. 1399 tiles
14. $m \angle A E N=\frac{1}{2}(m \overparen{A N}=m \overparen{L G})$
$y=142^{\circ}$
$z=110^{\circ}$
$g=40^{\circ}$
$n=30^{\circ}$
$x=70^{\circ}$
one-half the sum of the measures of the two intercepted arcs.


## Read Example A (page 481)



Investigation 9.6 page 482

Arc Length Conjecture: the length of an arc equals the fraction of the circle $(a / 360)$ multiplied by the circumference.


Check with Mrs. Mayden, then you may start your homework

$$
\begin{gathered}
\frac{80}{360}=\frac{2}{3} \cdot \frac{2}{3} \cdot \frac{Y_{6} \pi}{1} \quad \frac{12 \pi}{9} \pi \\
C=2 \pi r \\
2 \pi \cdot 3 \\
2 \pi
\end{gathered}
$$

\#2


