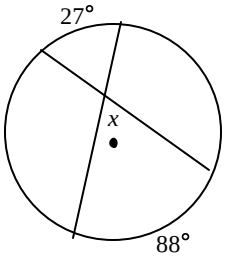
Accelerated Geometry ***Name*_____**

10.5 Warm Up ***Date*_____**

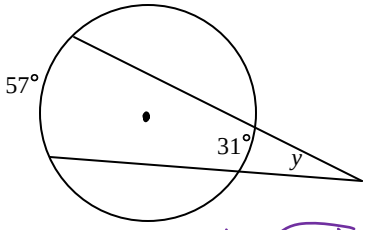
1. Find the indicated variable.

a)



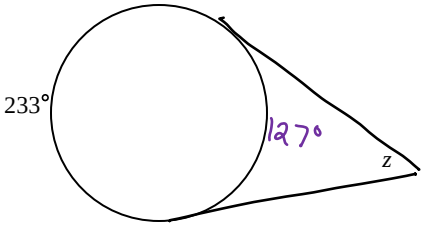
$x = \frac{27+88}{2} = 57.5°$

b)



$y = \frac{57-31}{2} = 13°$

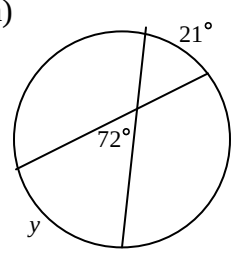
c)



$z = \frac{233-127}{2} = 53°$

2. Find the indicated variable.

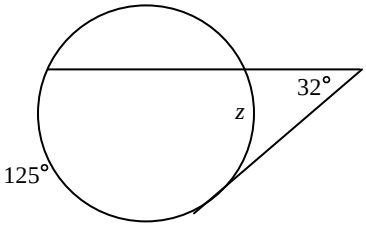
a)



$72 = \frac{y+21}{2}$

$y = 123°$

b)

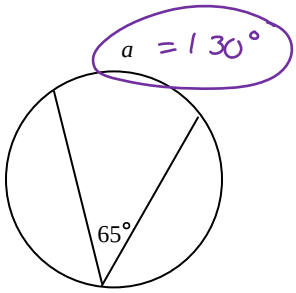


$32 = \frac{125-z}{2}$

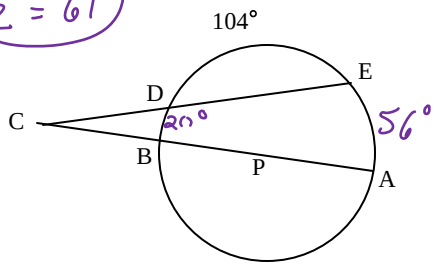
$64 = 125 - z$

$z = 61°$

c)



3. $\overline{AB}$ is a diameter of circle P.
$m\overset{\frown}{BD} = 20$, $m\overset{\frown}{DE} = 104$
Find $m\angle C$



$\overset{\frown}{BA} = 180°$

$\angle C = \frac{56-20}{2} = 18°$

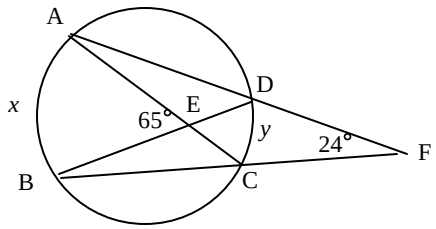
4. Find $m\overset{\frown}{AB}$ and $m\overset{\frown}{CD}$.

$\angle AEB = \frac{\overset{\frown}{AB} + \overset{\frown}{DC}}{2}$

$65 = \frac{x+y}{2}$

$\angle AFB = \frac{\overset{\frown}{AB} - \overset{\frown}{DC}}{2}$

$24 = \frac{x-y}{2}$



$130 = x + y$

$48 = x - y$

$178 = 2x$

$89° = x$

$y = 41°$