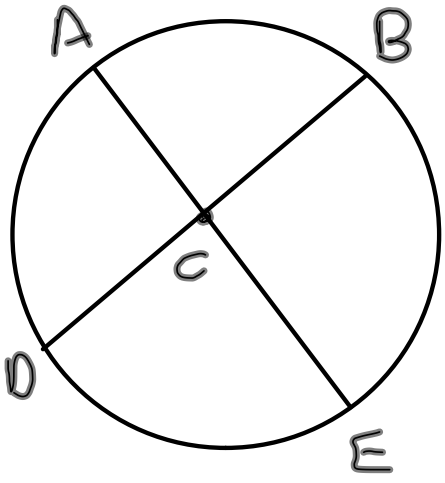
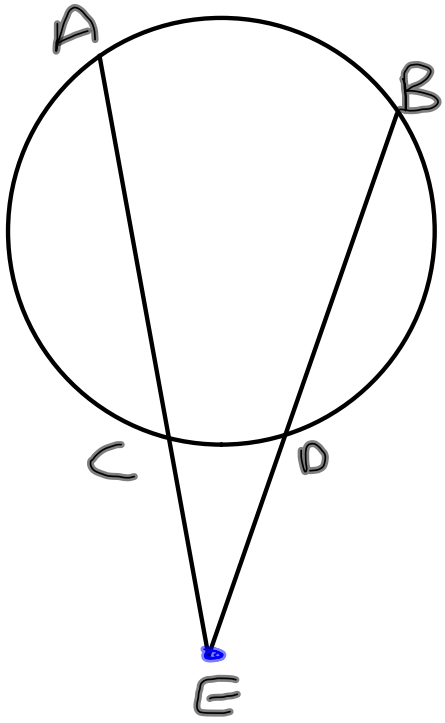
4-2-14

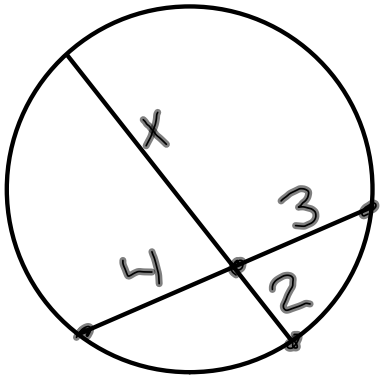
1st Geo



$AC \cdot CE = DC \cdot CB$



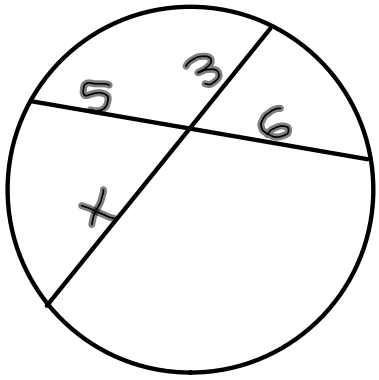
$EC \cdot EA = ED \cdot EB$



$2 \cdot x = 4 \cdot 3$

$2x = 12$

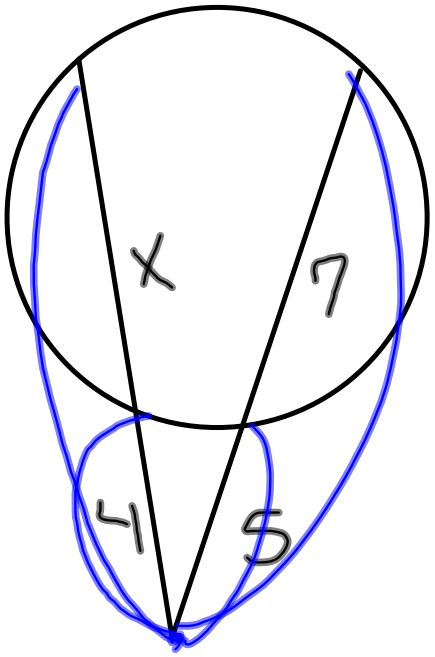
$x = 6$



$3 \cdot x = 5 \cdot 6$

$3x = 30$

$x = 10$



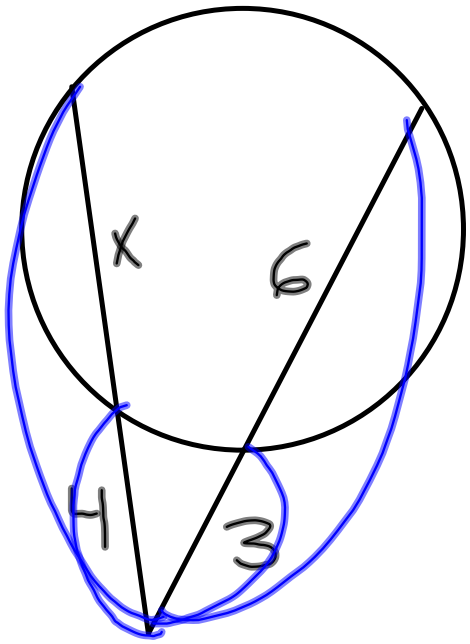
$$4 \cdot (4+x) = 5 \cdot 12$$

$$16 + 4x = 60$$

$$-16 \qquad -16$$

$$4x = 44$$

$$x = 11$$



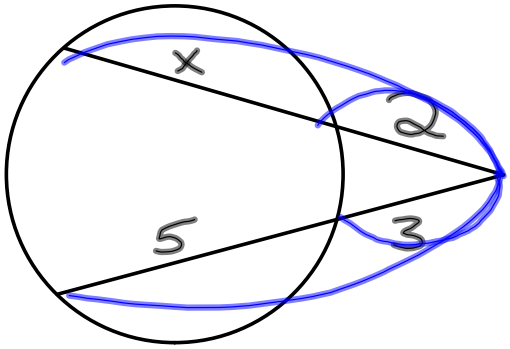
$$4 \cdot (4+x) = 3 \cdot 9$$

$$16 + 4x = 27$$

$$-16 \qquad -16$$

$$\frac{4x}{4} = \frac{11}{4}$$

$$x = 2.75$$



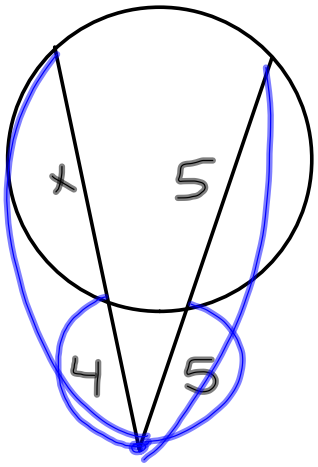
$2 \cdot (2 + x) = 3 \cdot 8$

$4 + 2x = 24$

$-4 \qquad -4$

$2x = 20$

$x = 10$



$4 \cdot (4 + x) = 5 \cdot 10$

$16 + 4x = 50$

$-16 \qquad -16$

$4x = 34$

$x = 8\frac{1}{2}$