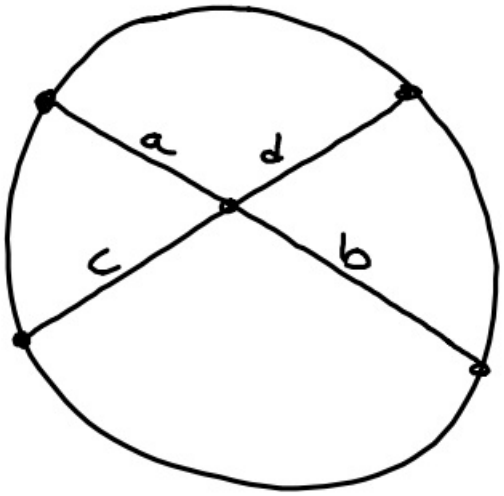
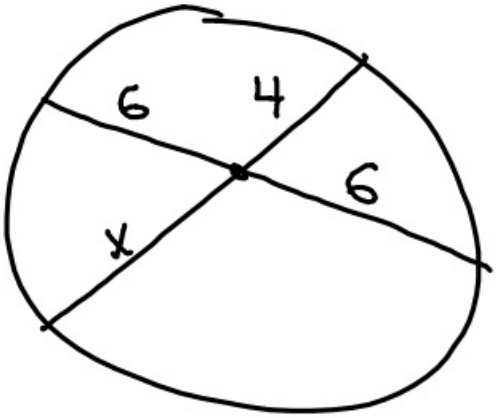
1-31-19 5th Geo



$ab = c \cdot d$

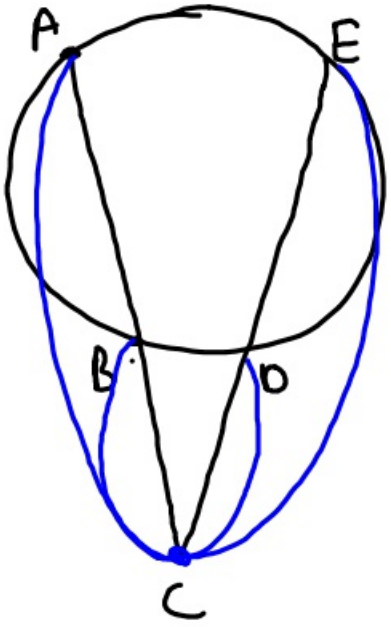
(1)



$4x = 6 \cdot 6$

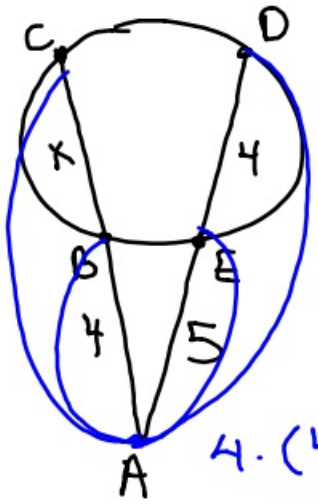
$4x = 36$

$x = 9$



$CB \cdot CA = CD \cdot CE$

(2)



$4 \cdot (4+x) = 5 \cdot 9$

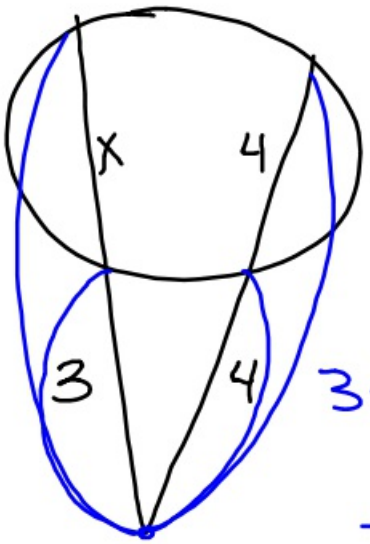
$16 + 4x = 45$

$-16 \quad -16$

$\frac{4x}{4} = \frac{29}{4}$

$x = 7.25$

(3)



$3 \cdot (3+x) = 4 \cdot 8$

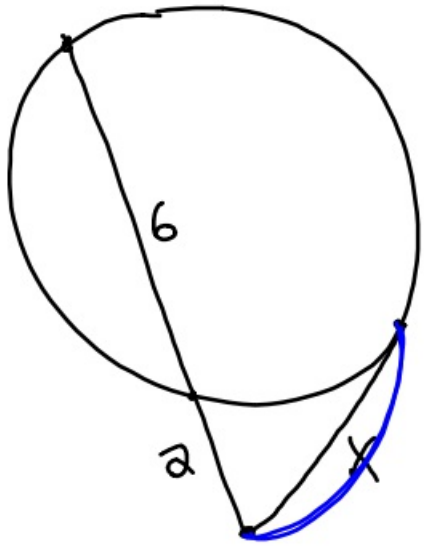
$9 + 3x = 32$

$-9 \quad -9$

$\frac{3x}{3} = \frac{23}{3}$

$x = 7\frac{2}{3}$

4

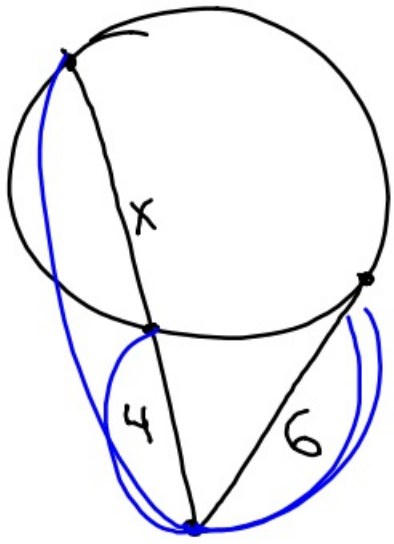


$2 \cdot 8 = x \cdot x$

$\sqrt{16} = \sqrt{x^2}$

$4 = x$

5



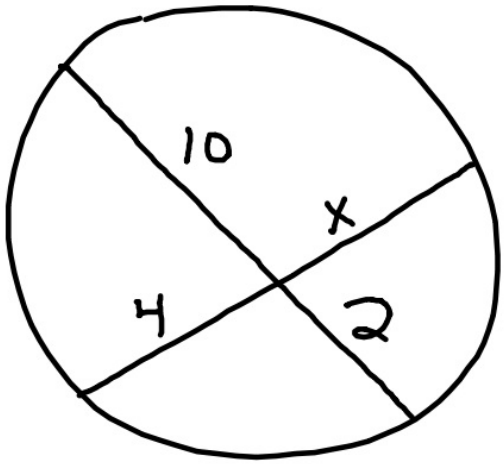
$4 \cdot (4 + x) = 6 \cdot 6$

$16 + 4x = 36$

$4x = 20$

$x = 5$

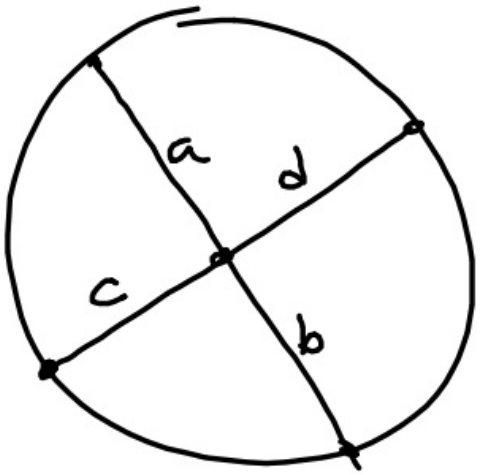
6



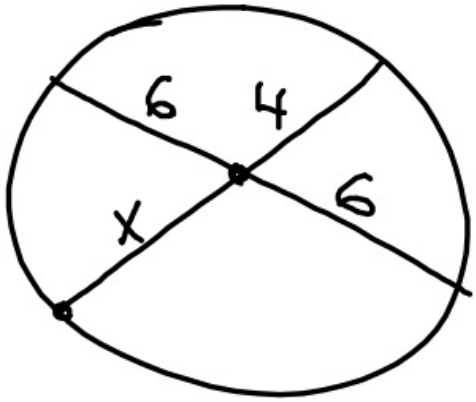
$4 \cdot x = 10 \cdot 2$

$x = 5$

1-31-19 6th Geo



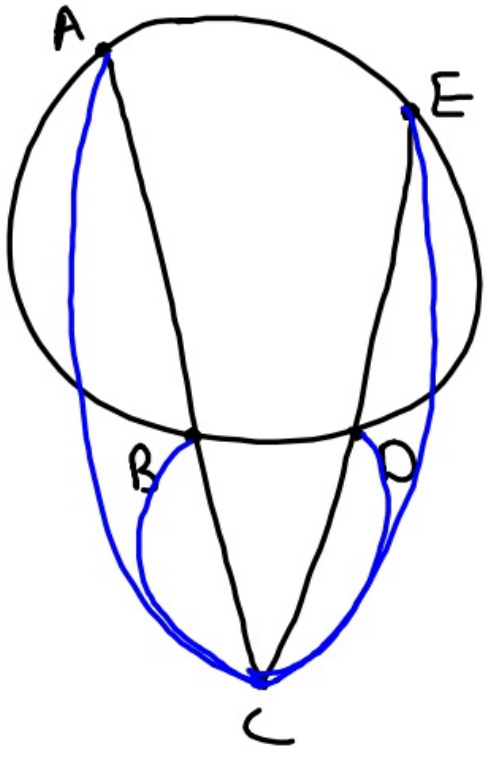
$a\,b = c\,d$

① 

$4 \cdot x = 6 \cdot 6$

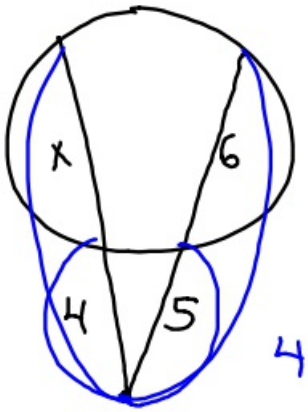
$4x = 36$

$x = 9$



$CB \cdot CA = CD \cdot CE$

(2)



$4 \cdot (4+x) = 5 \cdot 11$

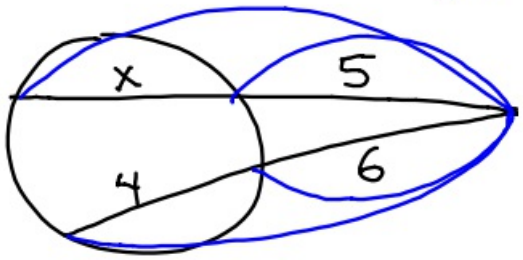
$16 + 4x = 55$

$-16 \quad -16$

$\frac{4x}{4} = \frac{39}{4}$

$x = 9\frac{3}{4} (9.75)$

(3)



$5 \cdot (5+x) = 6 \cdot 10$

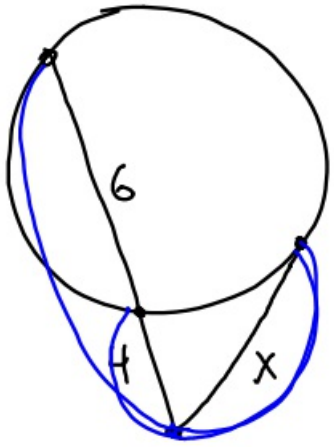
$25 + 5x = 60$

$-25 \quad -25$

$5x = 35$

$x = 7$

(4)

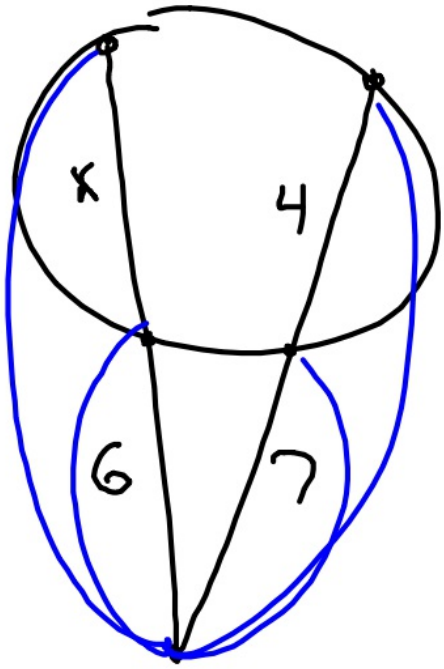


$4 \cdot 10 = x \cdot x$

$\sqrt{40} = \sqrt{x^2}$

$x \approx 6.3$

5



$$6 \cdot (6 + x) = 7 \cdot 11$$

$$36 + 6x = 77$$

$$-36 \qquad -36$$

$$\frac{6x}{6} = \frac{41}{6}$$

$$x = 6\frac{5}{6}$$