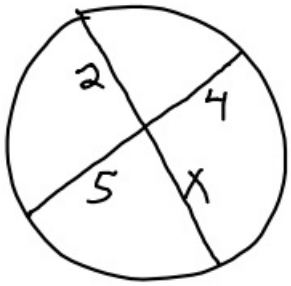
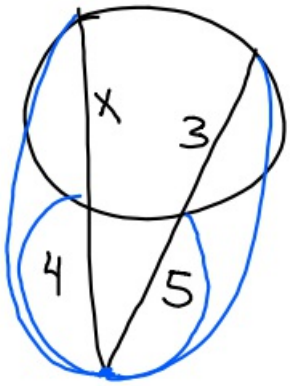
2-18-20 6th Geo

① 

$2 \cdot x = 5 \cdot 4$

$2x = 20$

$x = 10$

② 

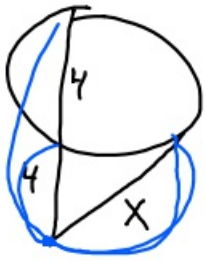
$4 \cdot (4+x) = 5 \cdot 8$

$16 + 4x = 40$

$-16 \quad -16$

$4x = 24$

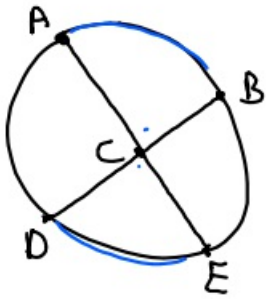
$x = 6$

③ 

$x \cdot x = 4 \cdot 8$

$\sqrt{x^2} = \sqrt{32}$

$x \approx 5.7$

④ 

$\overset{\frown}{AB} = 70$

$\angle ACB = 64°$

$\overset{\frown}{DE} = ?$

$\angle ACB = \frac{\overset{\frown}{AB} + \overset{\frown}{DE}}{2}$

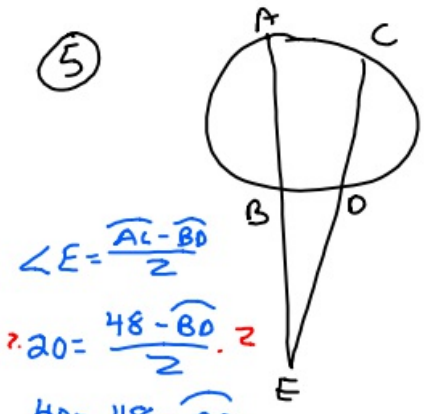
$2 \cdot 64 = \frac{70 + \overset{\frown}{DE}}{2} \cdot 2$

$128 = 70 + \overset{\frown}{DE}$

$-70 \quad -70$

$58 = \overset{\frown}{DE}$

(5)



$\overset{\frown}{AC} = 48^\circ$

$\angle E = 20^\circ$

$\overset{\frown}{BD}$

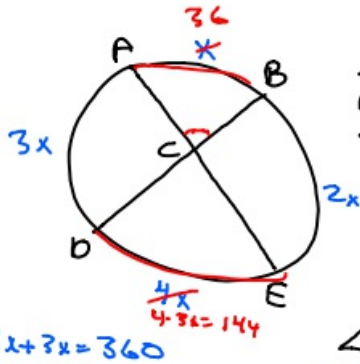
$\angle E = \frac{\overset{\frown}{AC} - \overset{\frown}{BD}}{2}$

$20 = \frac{48 - \overset{\frown}{BD}}{2} \cdot 2$

$40 = 48 - \overset{\frown}{BD}$

$\overset{\frown}{BD} = 8^\circ$

(6)



$\overset{\frown}{AB} = x$

$\overset{\frown}{AD} = 3x$

$\overset{\frown}{DE} = 4x$

$\overset{\frown}{BE} = 2x$

$\angle ACB = ?$

$4 \cdot 36 = 144$

$x + 2x + 4x + 3x = 360$

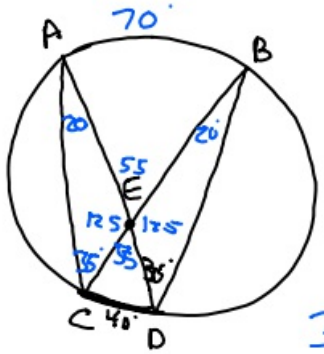
$10x = 360$

$x = 36$

$\angle ACB = \frac{36 + 144}{2}$

$\angle ACB = 90$

(7)



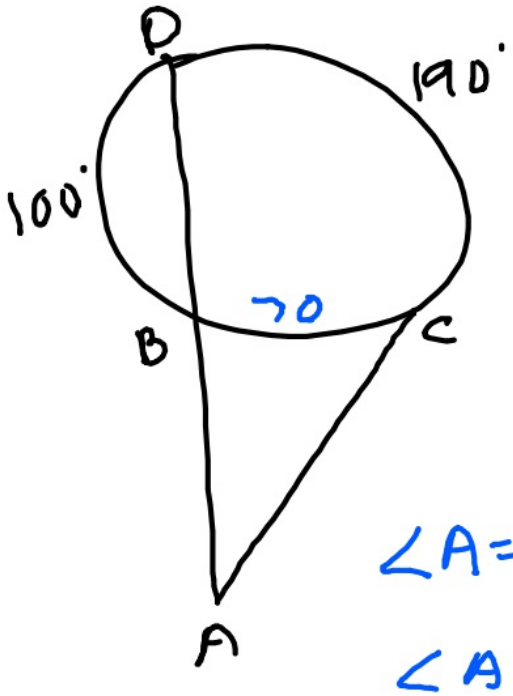
$\overset{\frown}{CD} = 40^\circ$

$\angle BDA = 35^\circ$

$\angle AEB = ?$

$\frac{70 + 40}{2} = 55^\circ$

(8)



$\overset{\frown}{DB} = 100°$

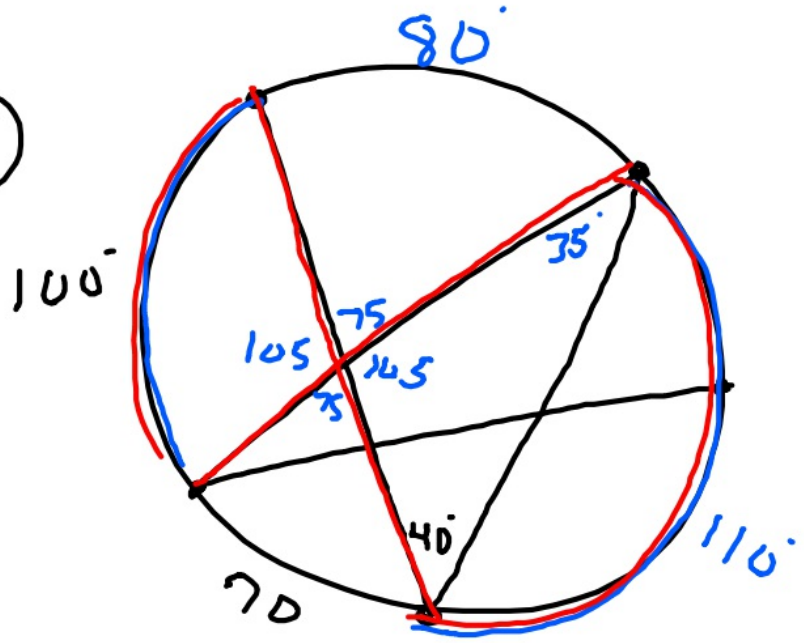
$\overset{\frown}{DC} = 190°$

$\angle A =$

$\angle A = \frac{190 - 70}{2}$

$\angle A = 60°$

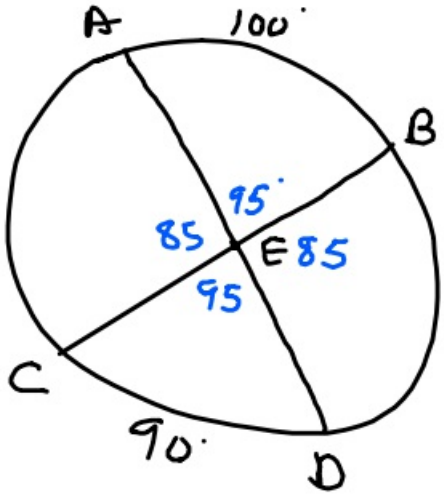
(9)



Fill in all you can.

2-18-20 7th Geo

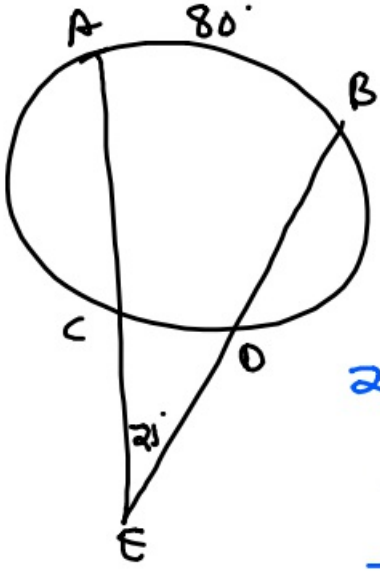
(1)



$\angle AEB = ?$ 95

$\frac{100 + 90}{2}$

(2)



$\overset{\frown}{CD} = ?$

$\angle E = \frac{\overset{\frown}{AB} - \overset{\frown}{CD}}{2}$

$21 = \frac{80 - \overset{\frown}{CD}}{2} \cdot 2$

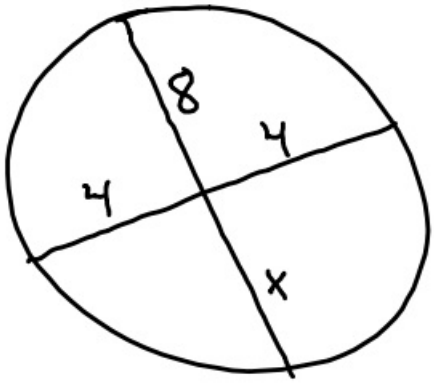
$42 = 80 - \overset{\frown}{CD}$

$-80 \quad -80$

$-38 = -\overset{\frown}{CD}$

$\overset{\frown}{CD} = 38$

(3)

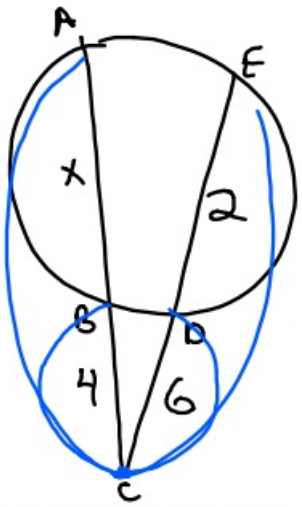


$8 \cdot x = 4 \cdot 4$

$8x = 16$

$x = 2$

(4)



$4 \cdot (4+x) = 6 \cdot 8$

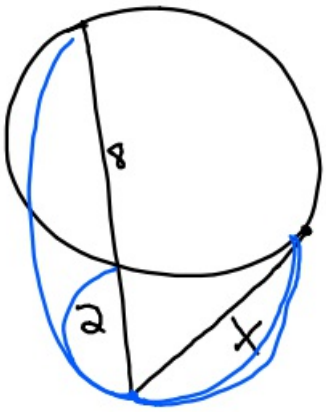
$16 + 4x = 48$

$-16 \quad -16$

$4x = 32$

$x = 8$

(5)

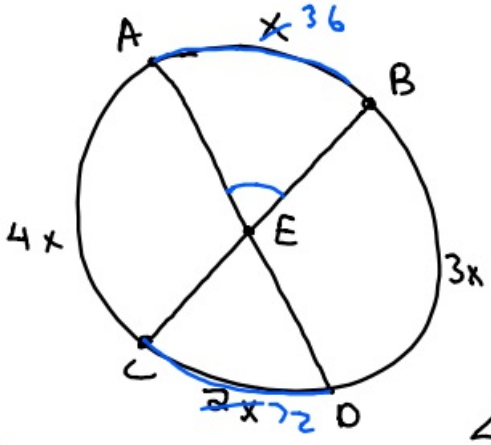


$2 \cdot 10 = x \cdot x$

$\sqrt{20} = \sqrt{x^2}$

$x \approx 4.5$

(6)



$\overset{\frown}{AB} = x$

$\overset{\frown}{BD} = 3x$

$\overset{\frown}{CD} = 2x$

$\overset{\frown}{AC} = 4x$

$\angle AEB = ?$

$x + 3x + 2x + 4x = 360$

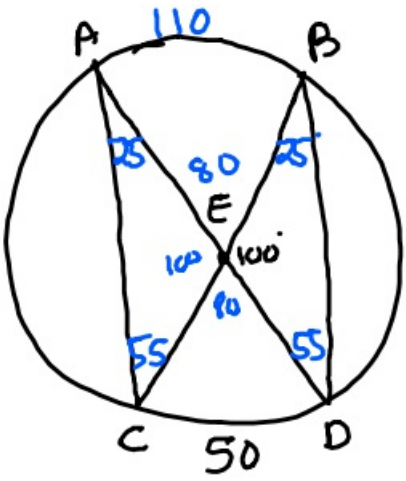
$10x = 360$

$x = 36$

$\angle AEB = \frac{36+72}{2}$

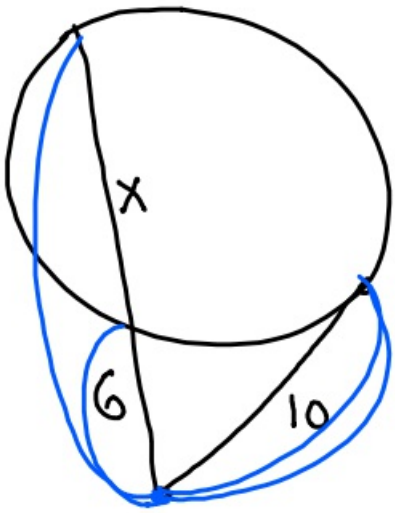
$\angle AEB = 54$

7



Fill in anything you can.

8



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

$36 + 6x = 100$

$-36 \quad -36$

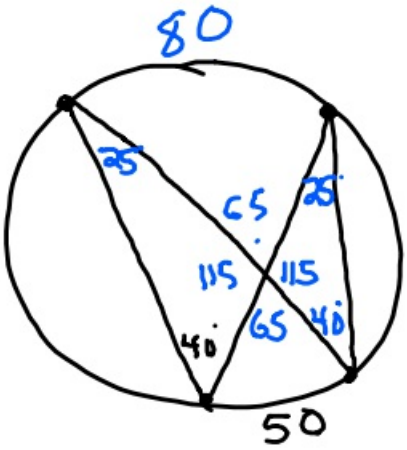
$6x = 64$

$x = 10\frac{4}{6}$

64

$\frac{60}{6} = 10 \ \frac{4}{6}$

9



Fill in everything