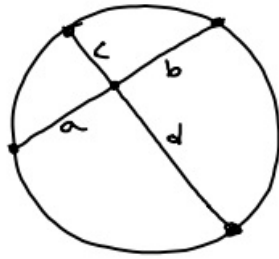
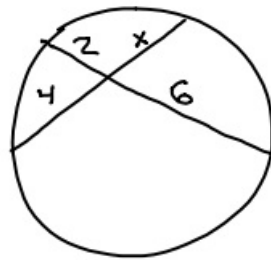


2-11-20

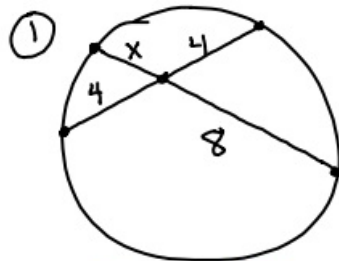
6<sup>th</sup> Geo



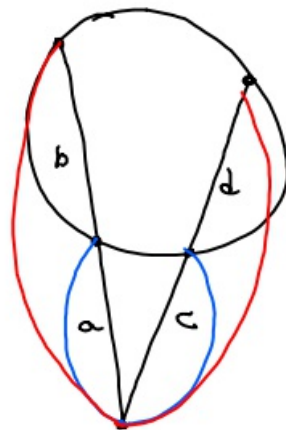
$$a \cdot b = c \cdot d$$



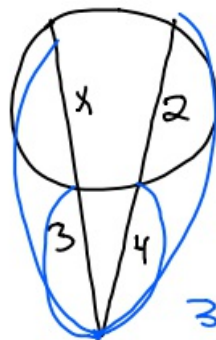
$$\begin{aligned} 4 \cdot x &= 2 \cdot 6 \\ 4x &= 12 \\ x &= 3 \end{aligned}$$



$$\begin{aligned} 8 \cdot x &= 4 \cdot 4 \\ 8x &= 16 \\ x &= 2 \end{aligned}$$

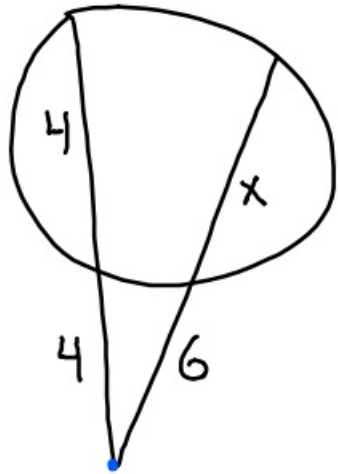


$$a \cdot (a+b) = c \cdot (c+d)$$



$$\begin{aligned} 3 \cdot (3+x) &= 4 \cdot 6 \\ 9+3x &= 24 \\ -9 & \quad -9 \\ \hline 3x &= 15 \\ x &= 5 \end{aligned}$$

2



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

$$32 = 36 + 6x$$

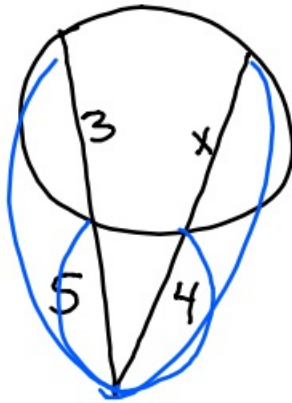
$$\begin{array}{r} -36 \\ -36 \end{array}$$

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

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

$\therefore x$  doesn't exist

3



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

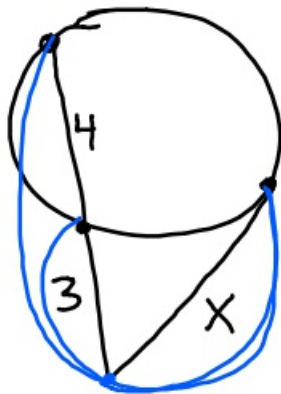
$$16 + 4x = 40$$

$$\begin{array}{r} -16 \\ -16 \end{array}$$

$$4x = 24$$

$$x = 6$$

4



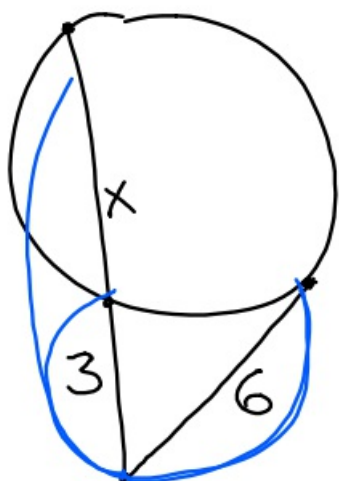
$$x \cdot x = 3 \cdot 7$$

$$\sqrt{x^2} = \sqrt{21}$$

$$x = \sqrt{21}$$

$$\begin{array}{l} \sqrt{20} \\ \sqrt{2 \cdot 2 \cdot 5} \\ 2\sqrt{5} \end{array}$$

5



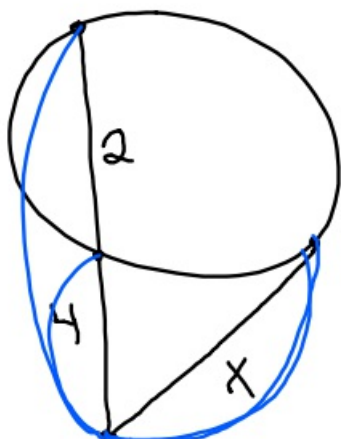
$$3 \cdot (3+x) = 6 \cdot 6$$

$$9 + 3x = 36$$

$$\begin{array}{r} -9 \\ \hline 3x = 27 \end{array}$$

$$x = 9$$

6



$$x \cdot x = 4 \cdot 6$$

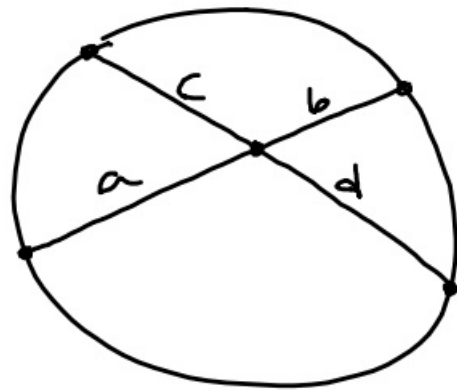
$$\sqrt{x^2} = \sqrt{24}$$

$$x = \sqrt{2 \cdot 2 \cdot 2 \cdot 3}$$

$$x = 2\sqrt{6}$$

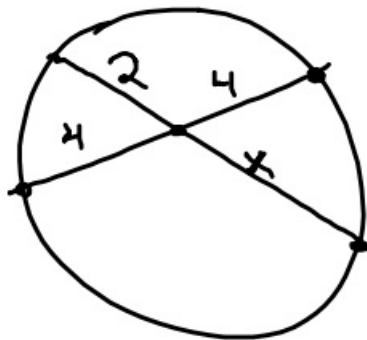
$$\begin{array}{c} 24 \\ \wedge \\ 8 \text{ (3)} \\ \wedge \\ 4 \\ \wedge \\ 2 \text{ (2)} \end{array}$$

2-11-20 7<sup>th</sup> Geo



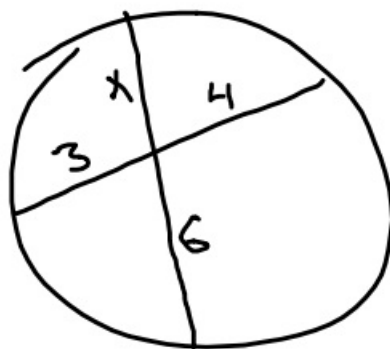
$$a \cdot b = c \cdot d$$

①

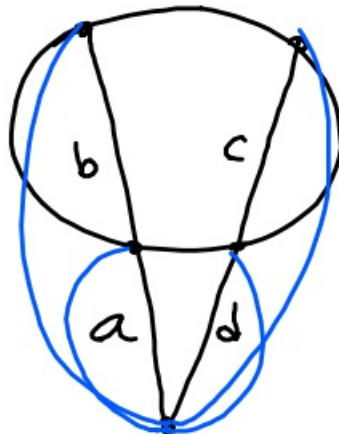


$$\begin{aligned} 2 \cdot x &= 4 \cdot 4 \\ 2x &= 16 \\ x &= 8 \end{aligned}$$

②

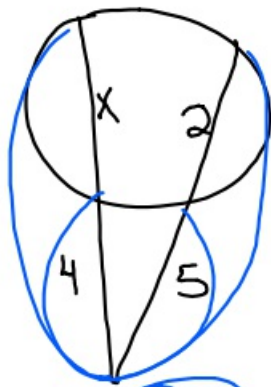


$$\begin{aligned} 6 \cdot x &= 3 \cdot 4 \\ 6x &= 12 \\ x &= 2 \end{aligned}$$



$$a \cdot (a+b) = d \cdot (d+c)$$

③

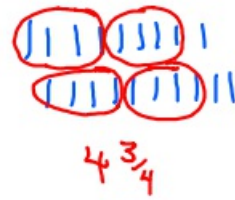


$$4 \cdot (4+x) = 5 \cdot 7$$

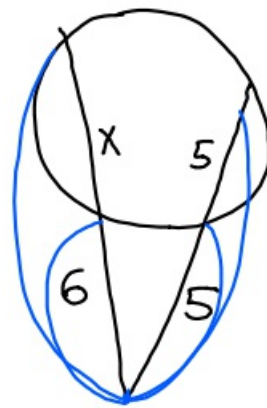
$$\begin{array}{r} 16 + 4x = 35 \\ -16 \quad -16 \\ \hline 4x = 19 \end{array}$$

$$x = 4.75$$

$$\begin{array}{r} 4 \overline{)19} \\ \underline{16} \\ 3 \end{array}$$



④



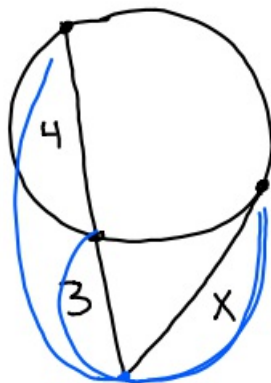
$$6 \cdot (6+x) = 5 \cdot 10$$

$$\begin{array}{r} 36 + 6x = 50 \\ -36 \quad -36 \\ \hline 6x = 14 \end{array}$$

$$\frac{6x}{6} = \frac{14}{6} \quad \frac{2}{6} = \frac{1}{3}$$

$$x = 2 \frac{1}{3} \quad (2.\overline{3})$$

⑤

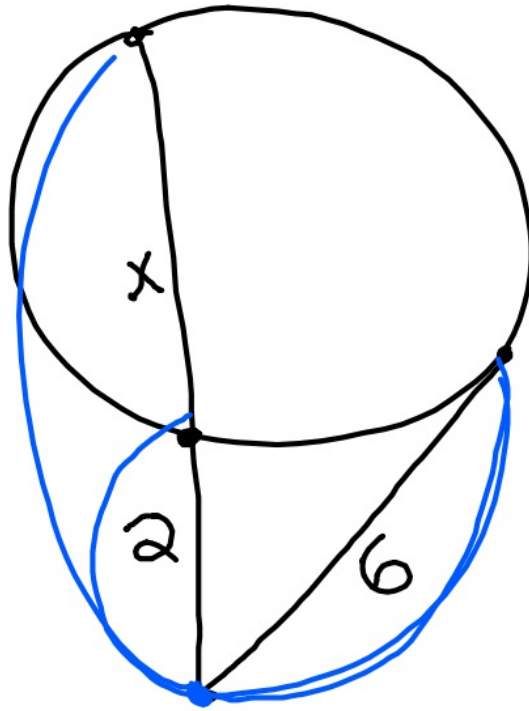


$$x \cdot x = 3 \cdot 7$$

$$\sqrt{x^2} = \sqrt{21}$$

$$x = \sqrt{21}$$

⑥



$$2 \cdot (2+x) = 6 \cdot 6 \rightarrow$$

$$\begin{array}{r} 4 + 2x = 36 \\ -4 \quad -4 \\ \hline 2x = 32 \end{array}$$

$$x = 16$$

$$\frac{20}{2} + \frac{12}{2}$$

$$10 + 6$$

$$\begin{array}{r} \cancel{2} \cdot (2+x) = \frac{36}{2} \\ 2+x = 18 \\ \underline{-2 \quad -2} \\ x = 16 \end{array}$$

$$\frac{30}{2} + \frac{2}{2}$$

$$15 + 1$$