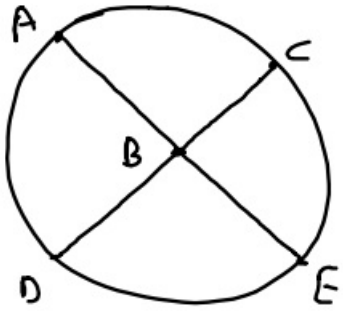
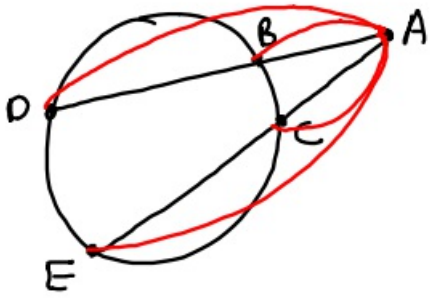
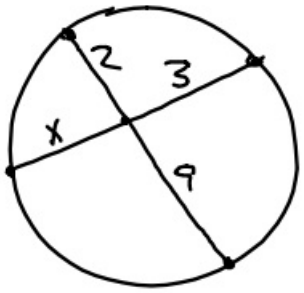
2-6-18 5th Geo



$AB \cdot BE = CB \cdot BD$



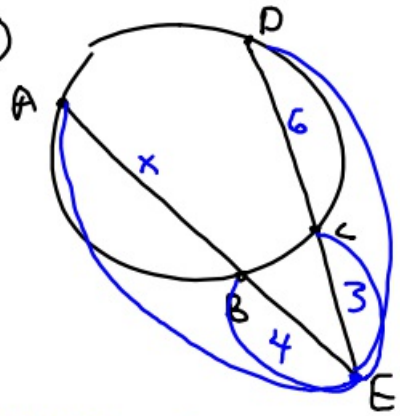
$AB \cdot AD = AC \cdot AE$

① 

$3 \cdot x = 2 \cdot 9$

$3x = 18$

$x = 6$

② 

$BE = 4$

$EC = 3$

$CD = 6$

$AB = ?$

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

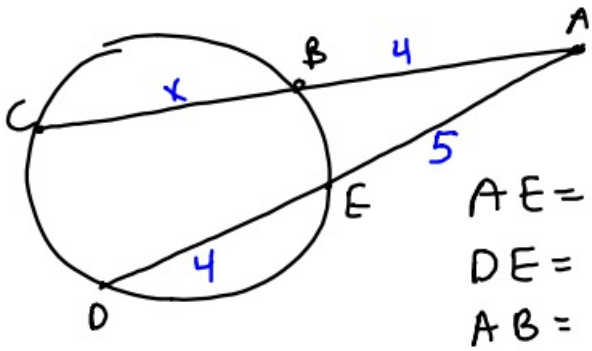
$16 + 4x = 27$

$-16 \quad -16$

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

$x = 2\frac{3}{4}$

(3)



AE = 5
DE = 4
AB = 4
BC = ?

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

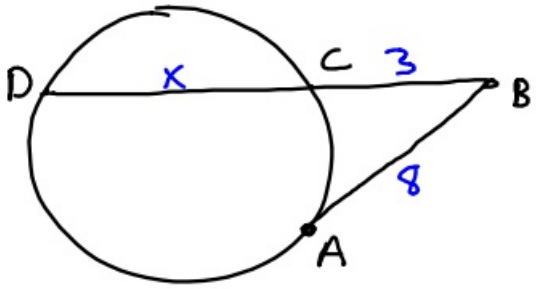
$16 + 4x = 45$

$-16 \quad -16$

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

$x = 7\frac{1}{4}$

(4)



AB = 8
BC = 3
DC = ?

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

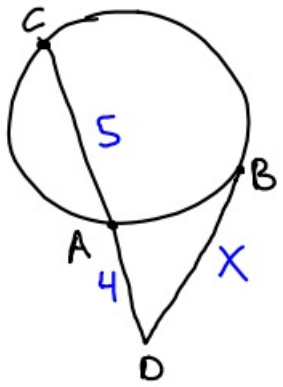
$9 + 3x = 64$

$-9 \quad -9$

$\frac{3x}{3} = \frac{55}{3}$

$x = 18\frac{1}{3}$

(5)



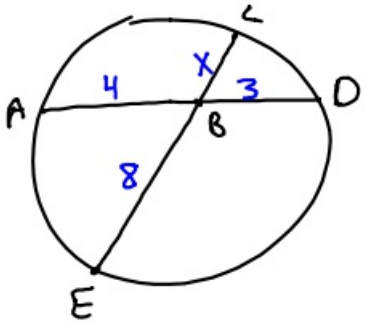
DA = 4
AC = 5
DB = ?

$X^2 = 4 \cdot 9$

$X^2 = 36$

$X = 6$

(6)



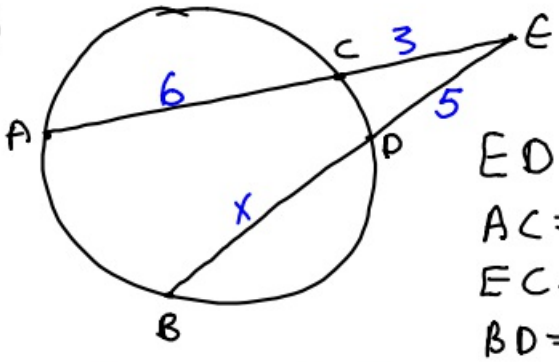
AB = 4
BD = 3
CB = X
BE = 8

$8 \cdot X = 4 \cdot 3$

$8X = 12$

$X = 1.5$

(7)



ED = 5
AC = 6
EC = 3
BD = ?

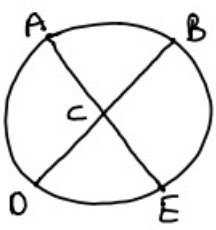
$5 \cdot (5 + X) = 3 \cdot 9$

$25 + 5X = 27$

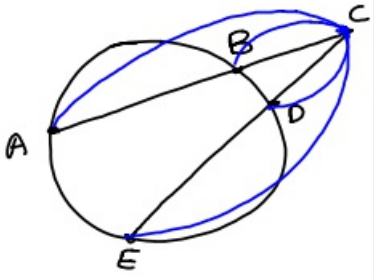
$5X = 2$

$X = \frac{2}{5}$

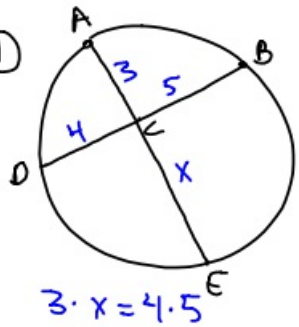
2-6-18 6th Geo



$AC \cdot CE = BC \cdot CD$



$CB \cdot CA = CD \cdot CE$

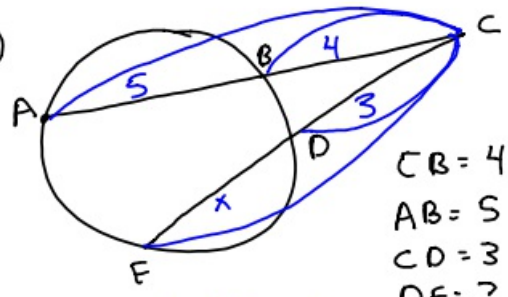
① 

$CD = 4$
$AC = 3$
$CB = 5$
$CE = ?$

$3 \cdot x = 4 \cdot 5$

$3x = 20$

$x = 6\frac{2}{3}$ $(6.\overline{6})$

② 

$CB = 4$
$AB = 5$
$CD = 3$
$DE = ?$

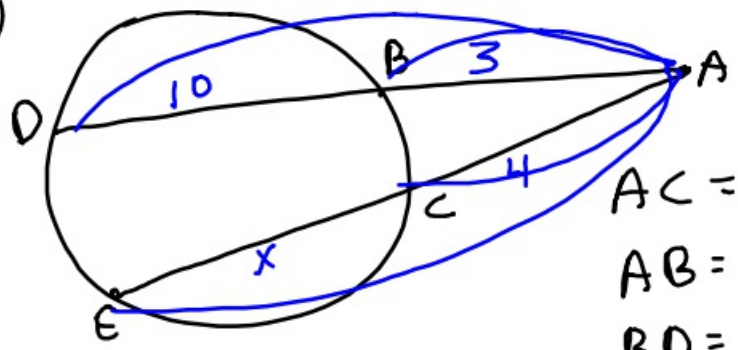
$4 \cdot 9 = 3(3+x)$

$36 = 9 + 3x$
$-9 \quad -9$

$27 = 3x$

$x = 9$

(3)



AC = 4

AB = 3

BD = 10

EC = ?

$4 \cdot (4 + x) = 3 \cdot 13$

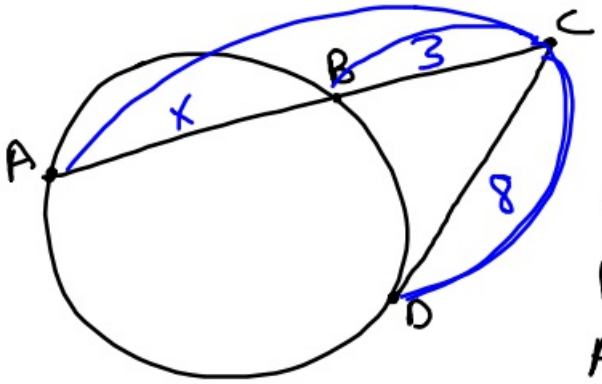
$16 + 4x = 39$

$-16 \quad -16$

$\frac{4x}{4} = \frac{23}{4}$

$x = 5\frac{3}{4}$

(4)



CD = 8

BC = 3

AB = ?

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

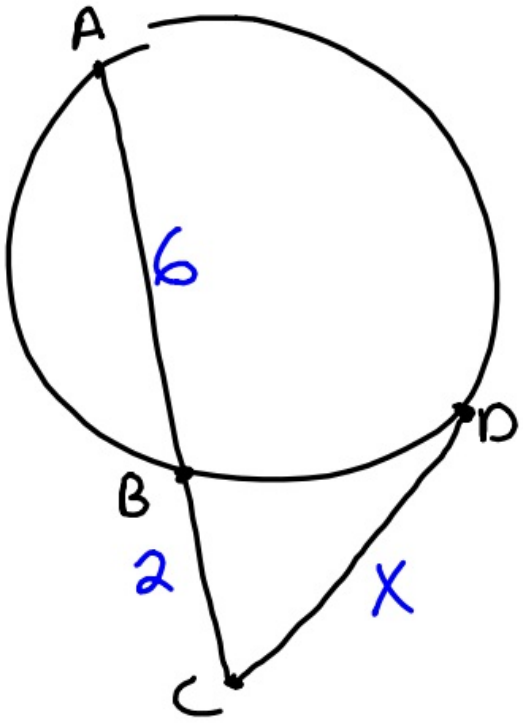
$9 + 3x = 64$

$-9 \quad -9$

$\frac{3x}{3} = \frac{55}{3}$

$x = 18\frac{1}{3} \quad (18.\overline{3})$

(5)



$AB = 6$

$BC = 2$

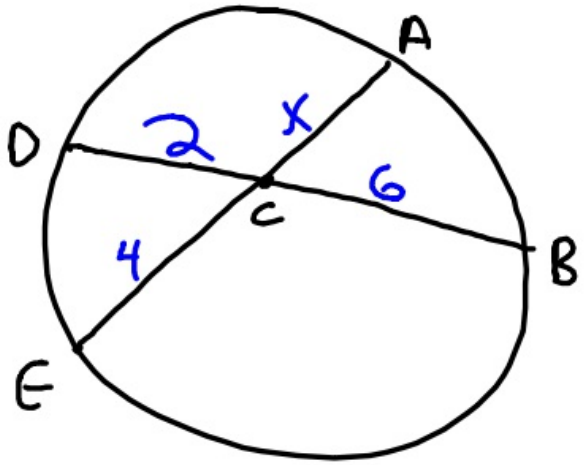
$CD = ?$

$X \cdot X = 2 \cdot 8$

$X^2 = 16$

$X = 4$

(6)



$DC = 2$

$CB = 6$

$AC = ?$

$CE = 4$

$4 \cdot X = 2 \cdot 6$

$4X = 12$

$X = 3$