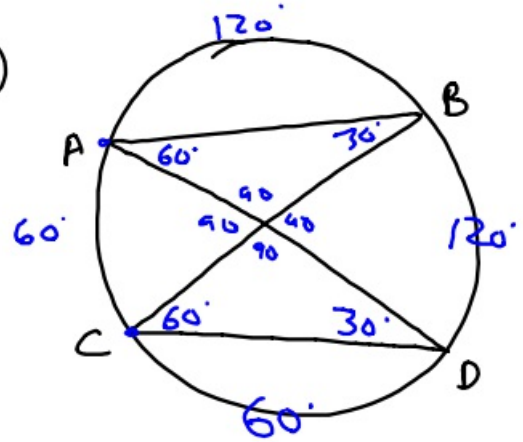
2-4-19 5th Geo

①

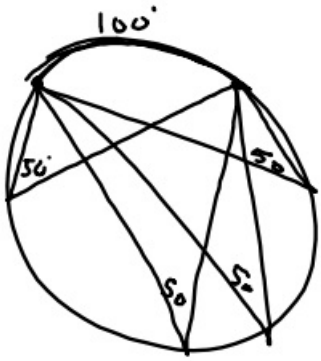


$\angle CDA = 30^\circ$

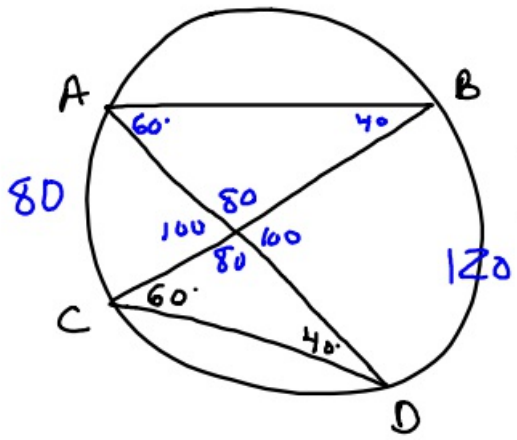
$\angle DAB = 60^\circ$

$\overset{\frown}{AB} = 120^\circ$

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



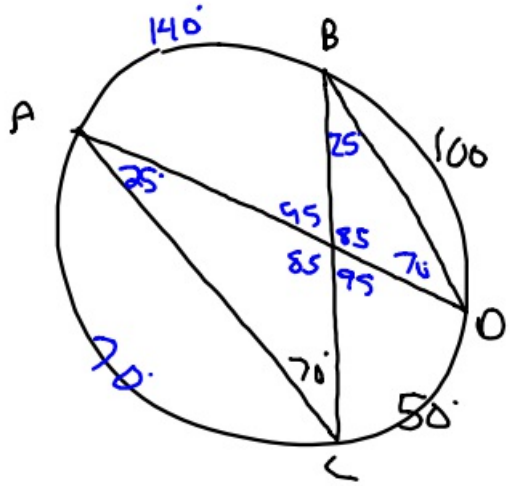
②



$\angle BCD = 60^\circ$

$\angle CDA = 40^\circ$

(3)

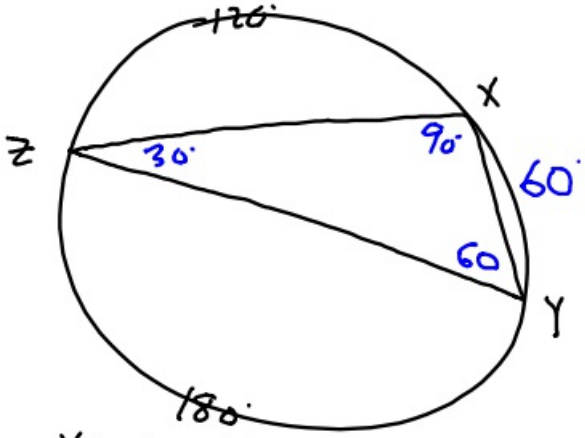


$\overset{\frown}{BD} = 100$

$\angle ACB = 70°$

$\overset{\frown}{CD} = 50°$

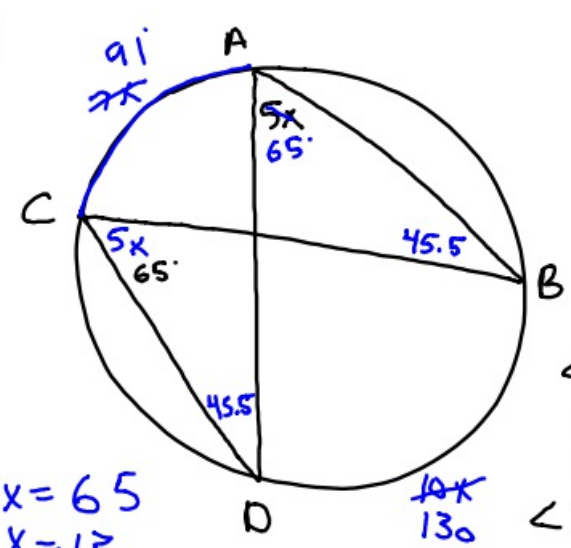
(4)



YZ is diameter

$\overset{\frown}{XZ} = 120°$

(5)



$5x = 65$

$x = 13$

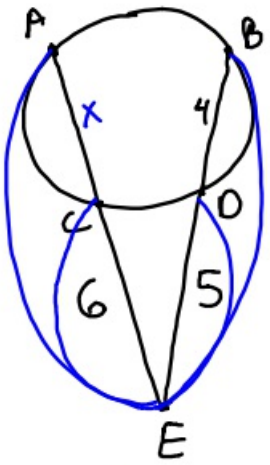
$\angle BAD = 5x$

$\overset{\frown}{AC} = 7x$

$\angle DCB = 65°$

$\angle ABC = ?$

(6)



$CE = 6$
$DE = 5$
$BD = 4$
$AC = ?$

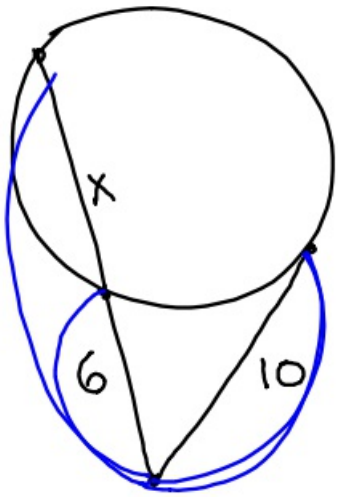
$6 \cdot (6 + x) = 5 \cdot 9$

$36 + 6x = 45$
$-36 \quad -36$

$6x = 9$

$x = 1.5$

(7)



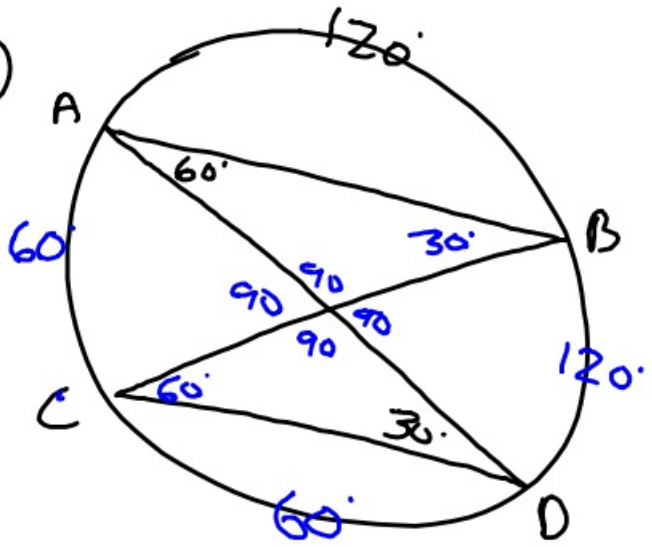
$6 \cdot (6 + x) = 10 \cdot 10$

$36 + 6x = 100$
$-36 \quad -36$

$\frac{6x}{6} = \frac{64}{6}$

$x = 10\frac{2}{3}$

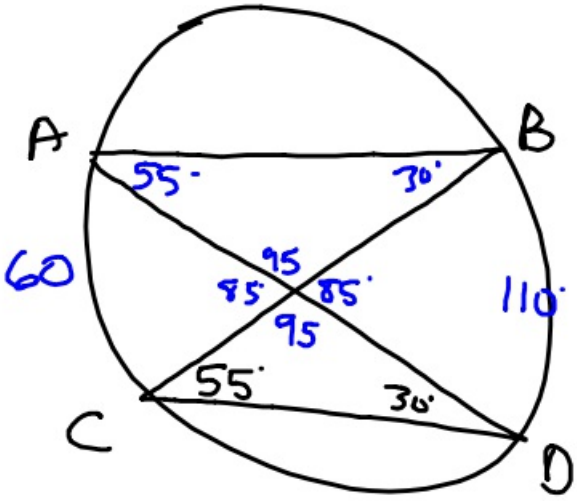
2-4-19 6th Geo

① 

$\angle CDA = 30$

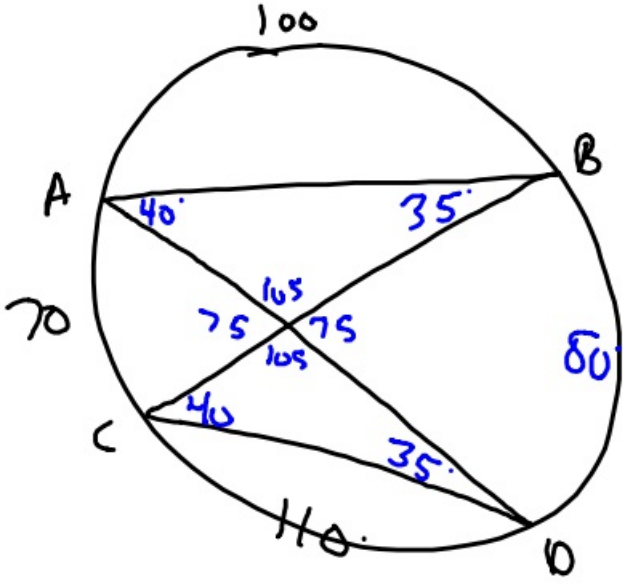
$\angle DAB = 60$

$\overset{\frown}{AB} = 120$

② 

$\angle BCD = 55$

$\angle CDA = 30$

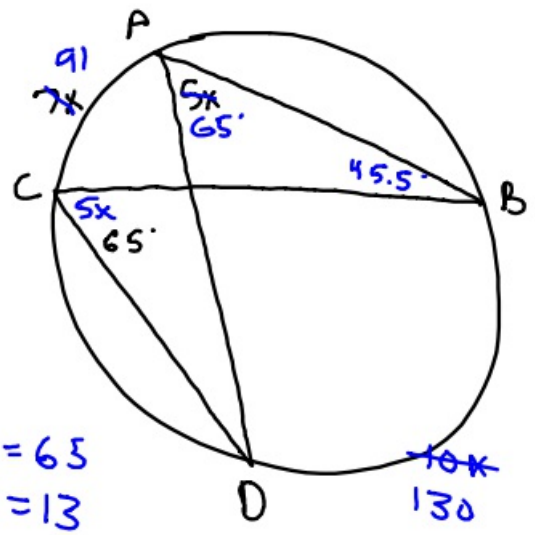
③ 

$\overset{\frown}{AB} = 100$

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

$\overset{\frown}{CD} = 110$

4



$\angle BAD = 5x$

$\angle DCB = 65°$

$\overset{\frown}{AC} = 7x$

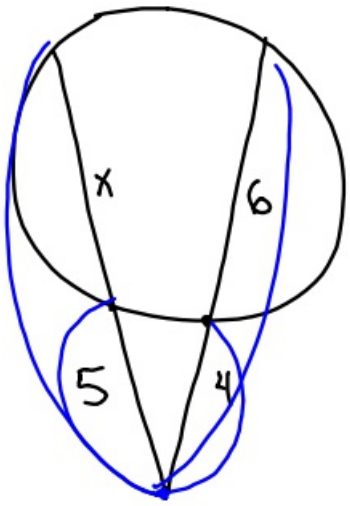
$\angle ABC = ?$

$45\frac{1}{2}°$

$5x = 65$

$x = 13$

5



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

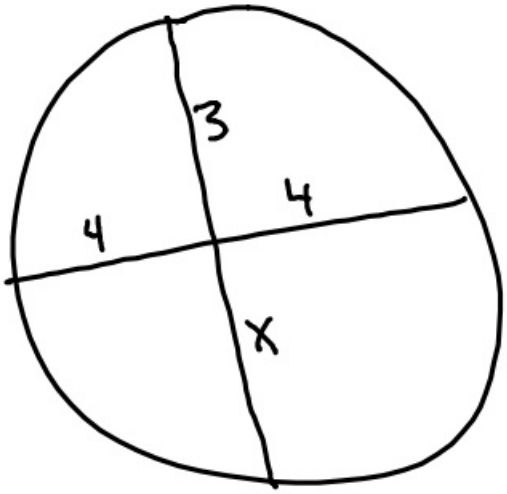
$25 + 5x = 40$

$-25 \quad -25$

$5x = 15$

$x = 3$

6

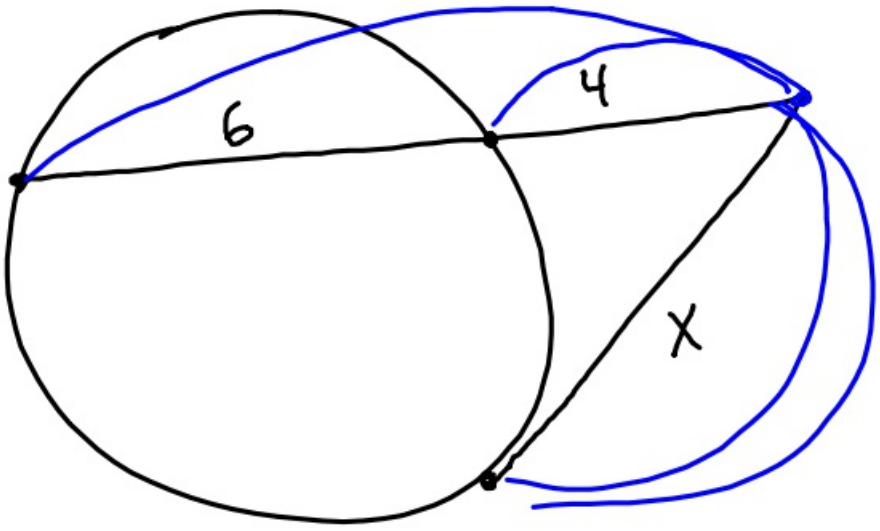


$3x = 4 \cdot 4$

$3x = 16$

$x = 5\frac{1}{3}$

7



$4 \cdot 10 = x \cdot x$

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

$x \approx 6.3 \qquad 2\sqrt{10}$