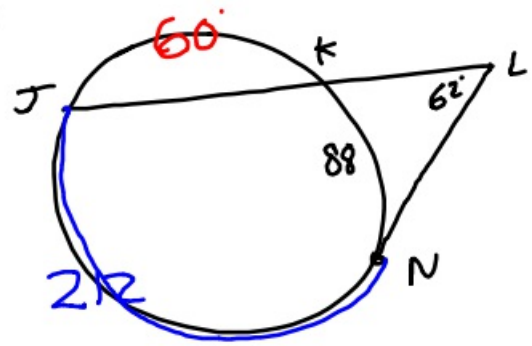
2-5-19 5th Geo

Ch. 9 PT 2

③



$\angle KLN = 62°$

$\overset{\frown}{KN} = 88$

$\overset{\frown}{JK} = ?$ 60

$\angle KLN = \frac{1}{2}(\overset{\frown}{JN} - \overset{\frown}{KN})$

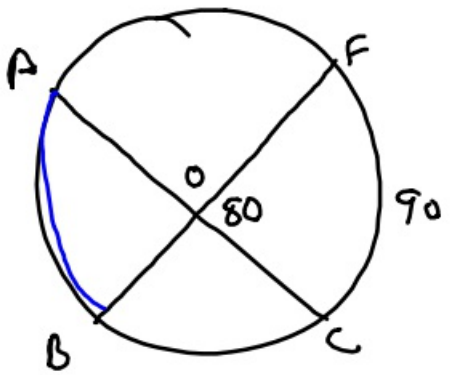
$2 \cdot 62 = 2 \cdot \frac{1}{2}(\overset{\frown}{JN} - 88)$

$124 = \overset{\frown}{JN} - 88$

$+88 \qquad +88$

$212 = \overset{\frown}{JN}$

①



$\angle FOC = 80°$

$\overset{\frown}{FC} = 90°$

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

$\angle FOC = \frac{1}{2}(\overset{\frown}{FC} + \overset{\frown}{AB})$

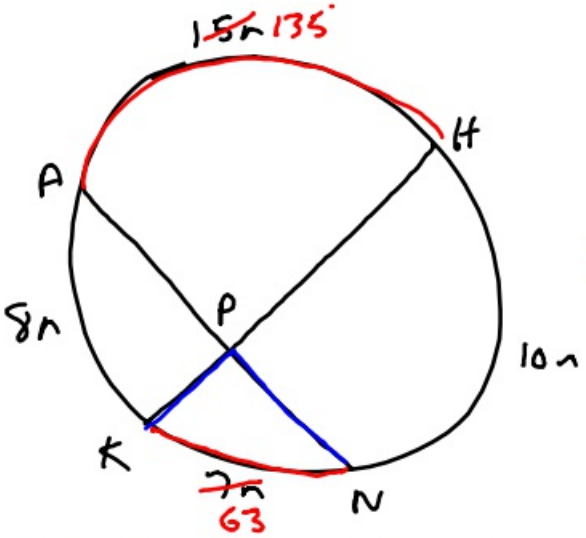
$2 \cdot 80 = 2 \cdot \frac{1}{2}(90 + \overset{\frown}{AB})$

$160 = 90 + \overset{\frown}{AB}$

$-90 \quad -90$

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

(4)



$\angle KPN = ?$

$\frac{1}{2}(63+135)$

$\frac{1}{2}(198)$

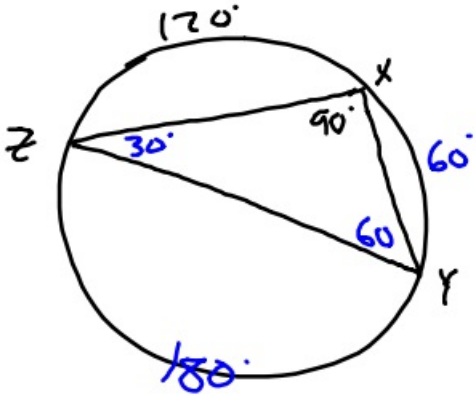
$99°$

$8n+7n+10n+15n=360°$

$40n=360$

$n=9°$

(8)

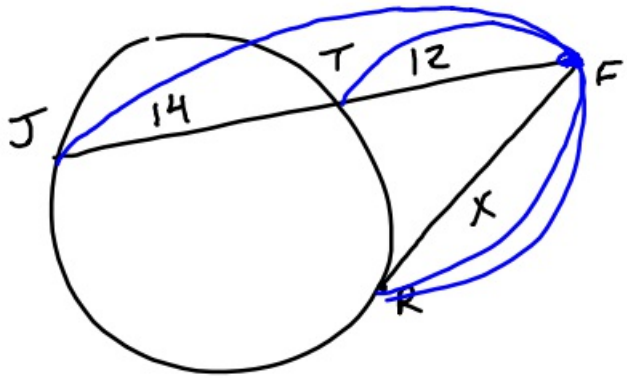


$\overset{\frown}{XZ} = 120°$

$\angle YXZ = 90°$

$\angle XZY = ?$ $30°$

(6)



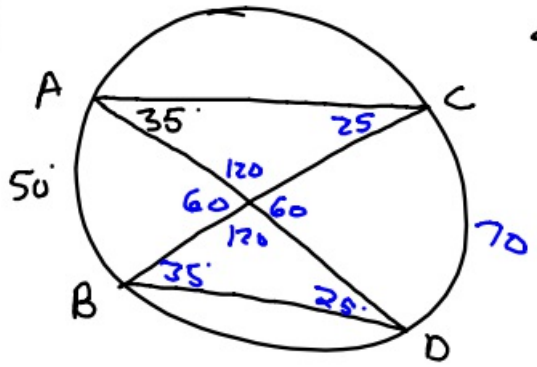
$12 \cdot 26 = x \cdot x$

$\sqrt{x^2} = \sqrt{312}$

$x \approx 17.$

New Practice

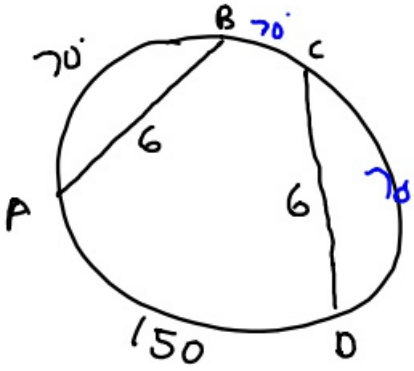
1



$\angle CAD = 35$

$\overset{\frown}{AB} = 50$

2

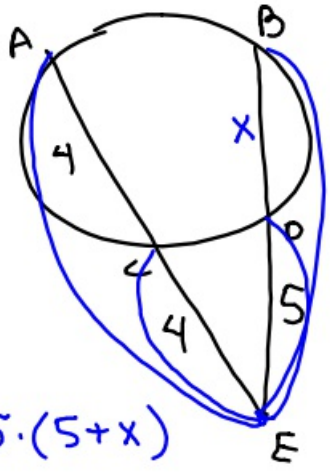


$\overset{\frown}{AB} = 70$

$\overset{\frown}{AD} = 150$

$\overset{\frown}{BC} = ?$ 70

3



$EC = 4$

$ED = 5$

$AC = 4$

$BD = ?$

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

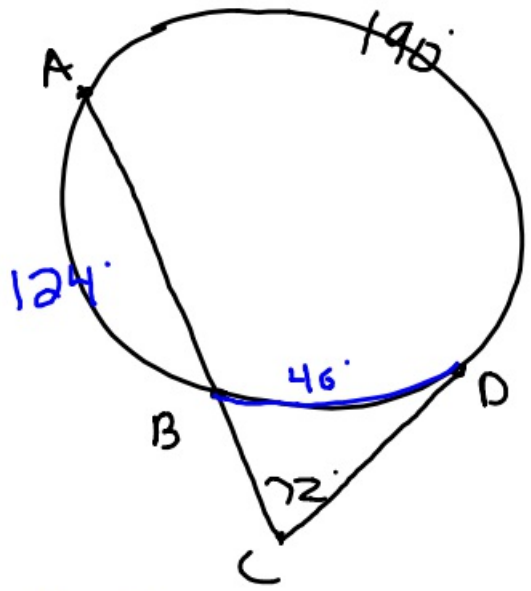
$32 = 25 + 5x$

$-25 \quad -25$

$7 = 5x$

$x = 1\frac{2}{5} (1.4)$

4



$\angle C = 72°$

$\overset{\frown}{AD} = 190°$

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

$\angle C = \frac{1}{2}(\overset{\frown}{AD} - \overset{\frown}{BD})$

$2 \cdot 72 = \frac{1}{2}(190 - \overset{\frown}{BD})$

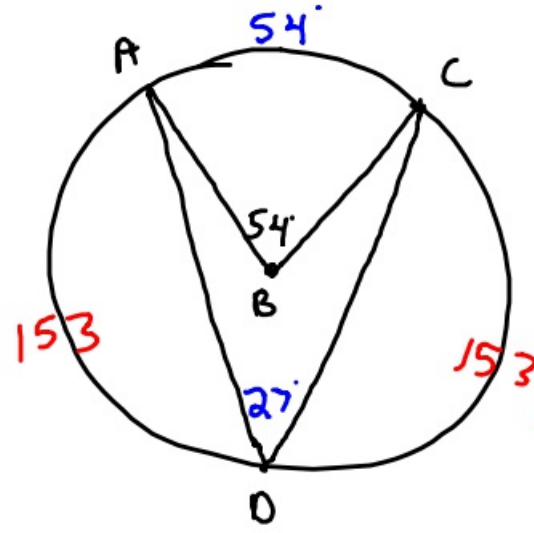
$144 = 190 - \overset{\frown}{BD}$

$-190 \quad -190$

$-46 = -\overset{\frown}{BD}$

$\overset{\frown}{BD} = 46°$

5



$\odot B$

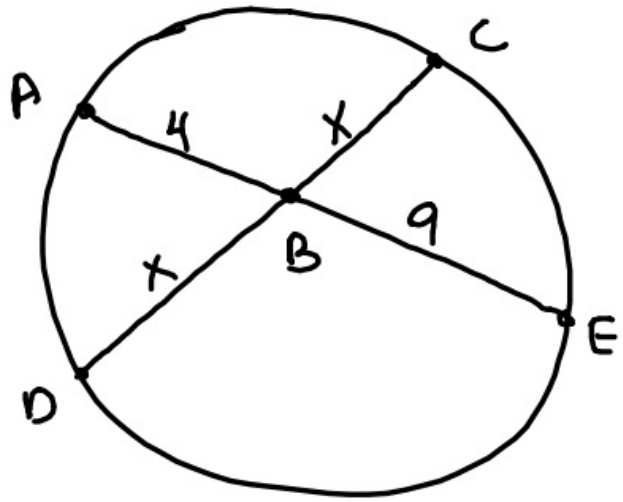
$\angle ABC = 54°$

$AD = CD$

$360 - 54 = \frac{306}{2}$

$153°$

6



B is midpoint of $\overline{CD}$

AB = 4

BE = 9

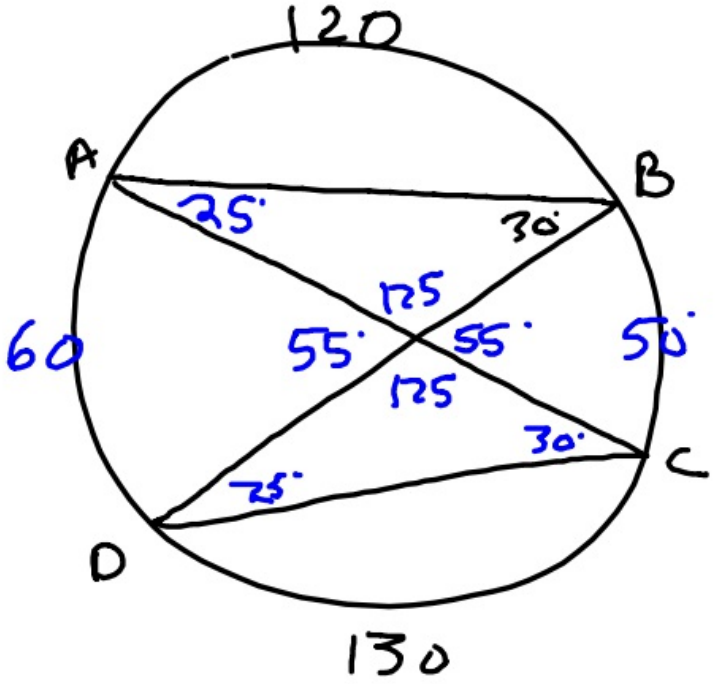
BD = ?

$X \cdot X = 4 \cdot 9$

$X^2 = 36$

$X = 6$

7



$\overset{\frown}{AB} = 120°$

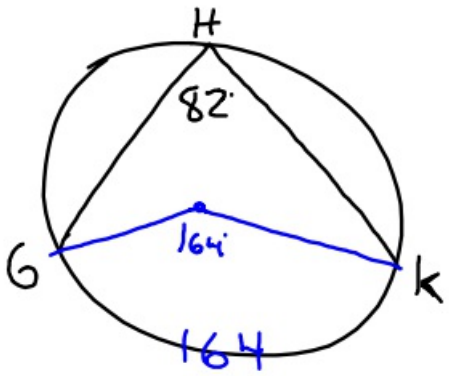
$\overset{\frown}{DC} = 130°$

$\angle ABD = 30°$

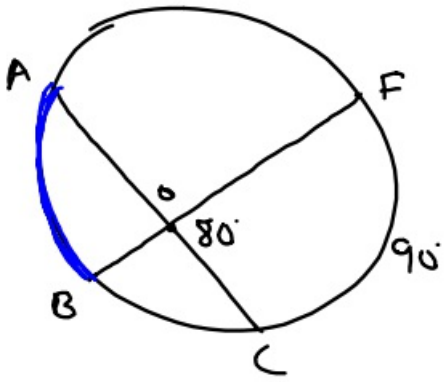
2-5-19 6th Geo

Ch 9 PT 2

②



①



$\angle FOC = 80$

$\overset{\frown}{FC} = 90$

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

$\angle FOC = \frac{1}{2}(\overset{\frown}{FC} + \overset{\frown}{AB})$

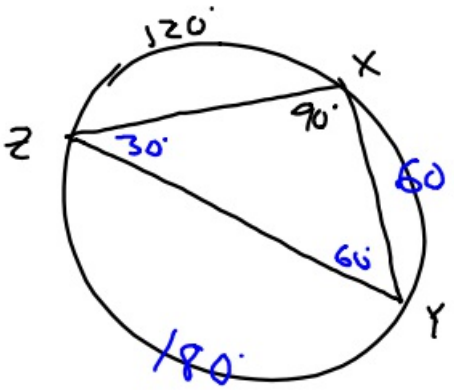
$2 \cdot 80 = 2 \cdot \frac{1}{2}(90 + \overset{\frown}{AB})$

$160 = 90 + \overset{\frown}{AB}$

$-90 \quad -90$

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

⑧

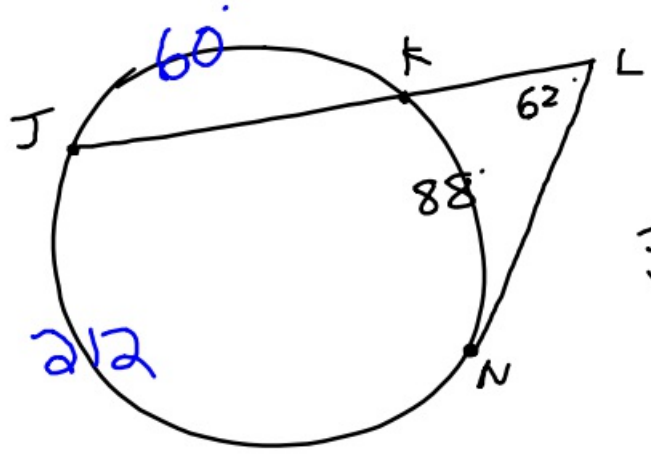


$\overset{\frown}{XZ} = 120$

$\angle YXZ = 90$

$\angle XZY = ?$ 30

(3)



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

$\angle KLN = \frac{1}{2}(\overset{\frown}{JN} - \overset{\frown}{KN})$

$2 \cdot 62 = \frac{1}{2}(\overset{\frown}{JN} - 88)$

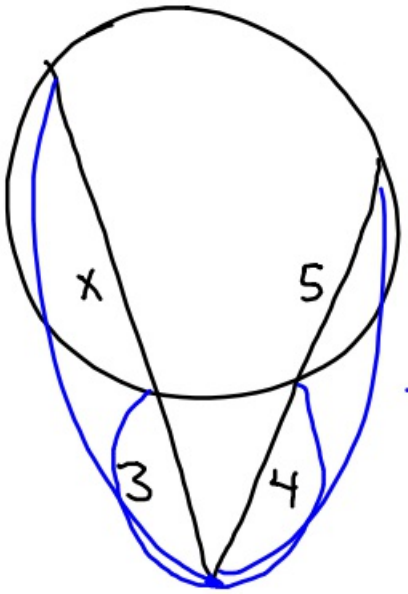
$124 = \overset{\frown}{JN} - 88$

$+88 \qquad +88$

$212 = \overset{\frown}{JN}$

New

(1)



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

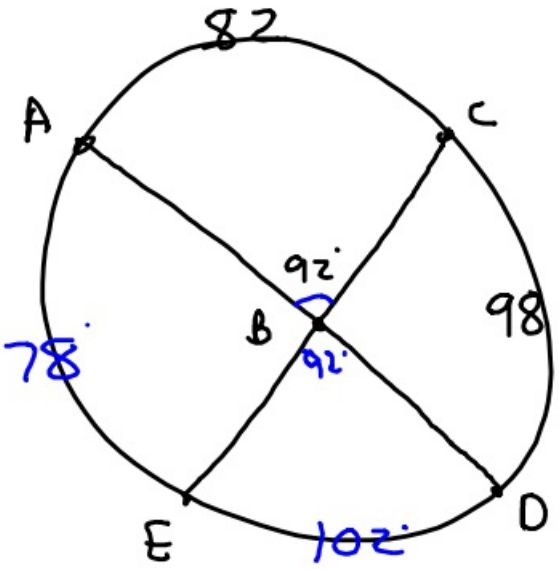
$9 + 3x = 36$

$-9 \qquad -9$

$3x = 27$

$x = 9$

(2)



$\overset{\frown}{AC} = 82°$

$\overset{\frown}{CD} = 98°$

$\angle ABC = 92°$

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

$\angle ABC = \frac{1}{2}(\overset{\frown}{AC} + \overset{\frown}{ED})$

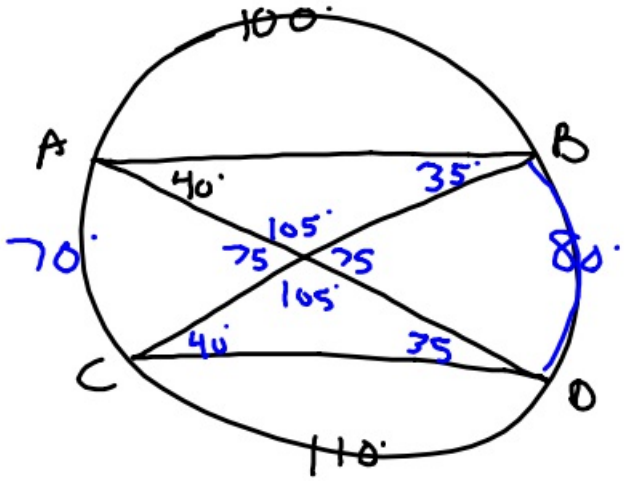
$2 \cdot 92 = \frac{1}{2}(82 + \overset{\frown}{ED})$

$184 = 82 + \overset{\frown}{ED}$

$-82 \quad -82$

$102 = \overset{\frown}{ED}$

(3)

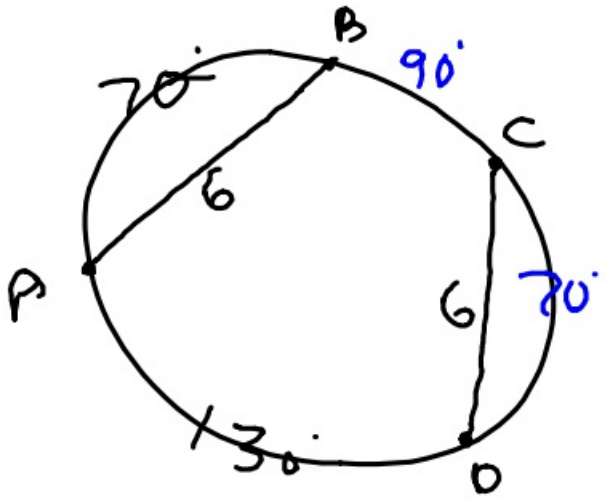


$\overset{\frown}{AB} = 100°$

$\angle BAD = 40°$

$\overset{\frown}{CD} = 110°$

(4)

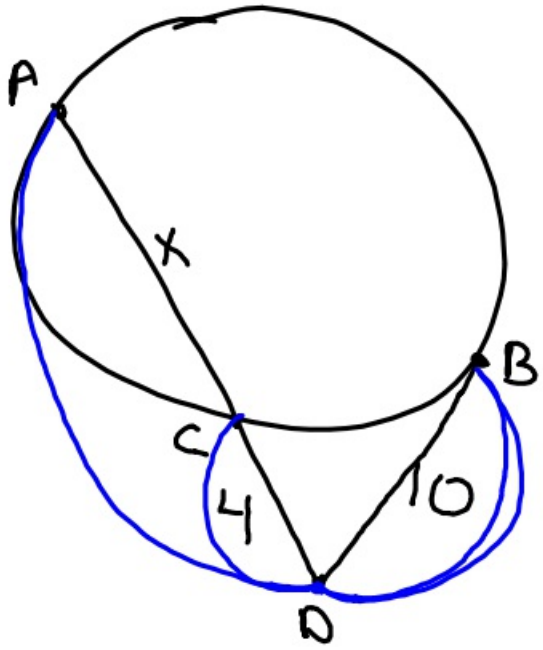


$\overset{\frown}{AB} = 70°$

$\overset{\frown}{AD} = 130°$

$\overset{\frown}{BC} = ?\ 90°$

(5)



$BD = 10$

$CD = 4$

$AC = ?$

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

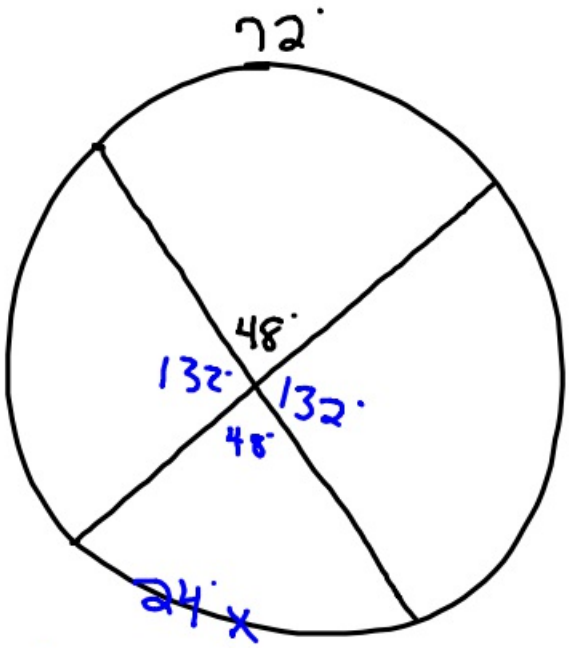
$16 + 4x = 100$

$-16 \qquad -16$

$4x = 84$

$x = 21$

6



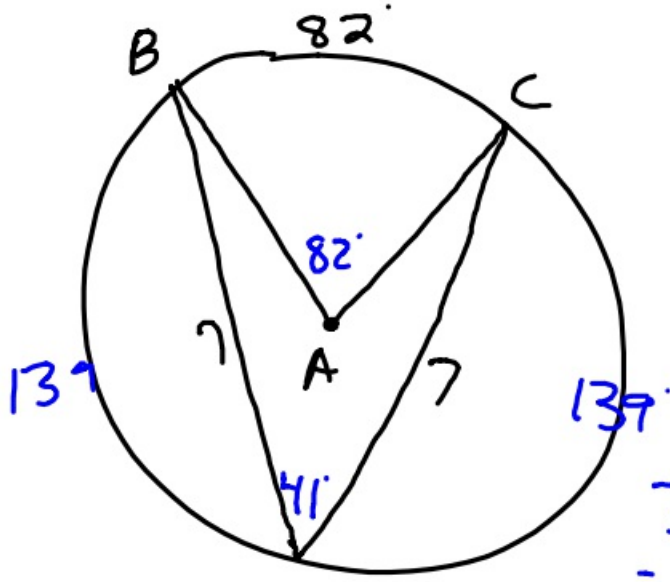
2. $48 = \frac{1}{2}(72 + x)$

$96 = 72 + x$

$-72 \quad -72$

$24 = x$

7



⊙A

$\overset{\frown}{BC} = 82°$

360

$-\ 82$

$\frac{278}{2} = 139°$