

Final Revision Geometry November Exam

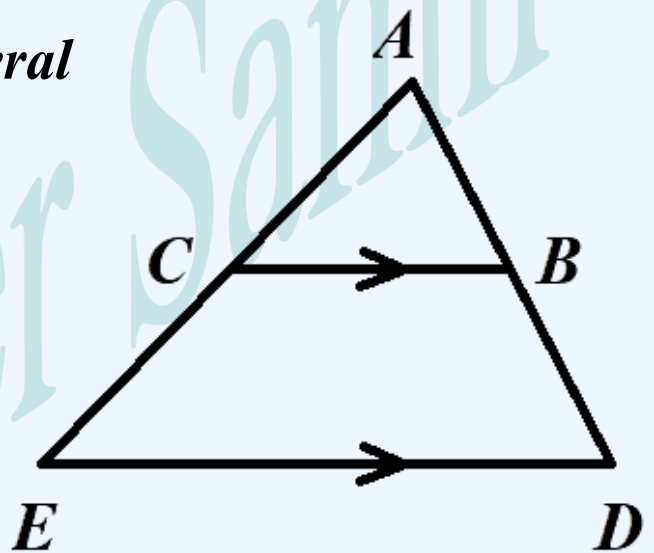
1st secondary

1. Choose the correct answer:

1) In the opposite figure:

If $\overline{BC} \parallel \overline{DE}$, then _____

- a) $BCED$ is cyclic quadrilateral
- b) $\triangle ABC \sim \triangle ADE$
- c) $AB \times AD = AC \times AE$
- d) $AB : BD = BC : DE$



2) In the opposite figure:

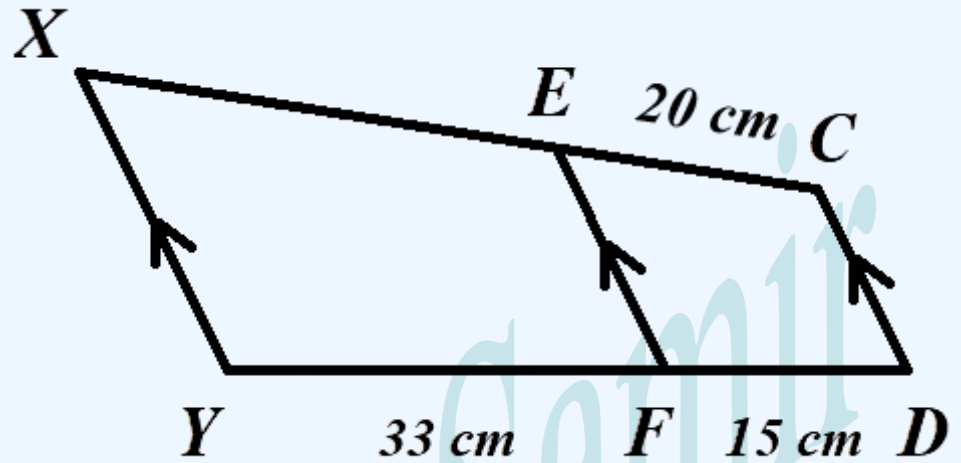
Length of \overline{XC} = _____ cm

a) 48

b) 64

c) 44

d) 21



3) In the opposite figure:

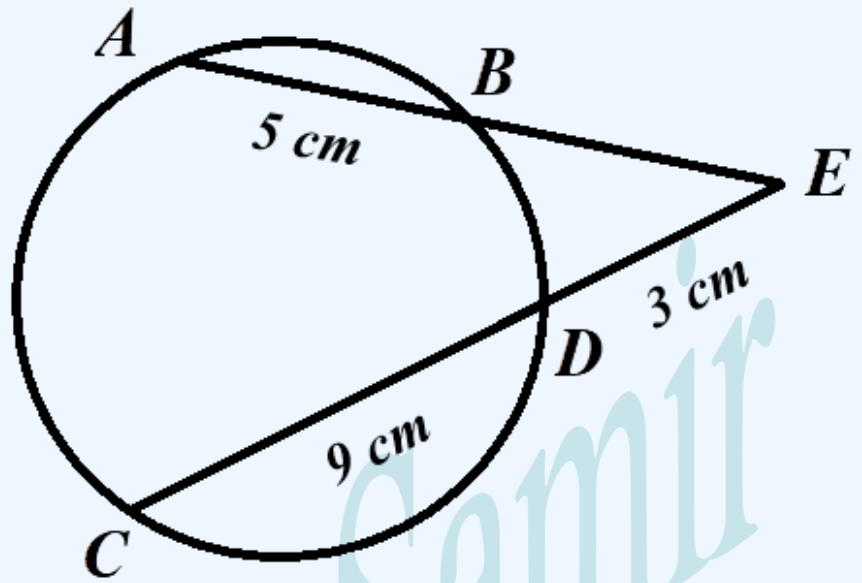
$BE = \underline{\hspace{2cm}} \text{ cm}$

a) 6

b) 5

c) 4

d) 3

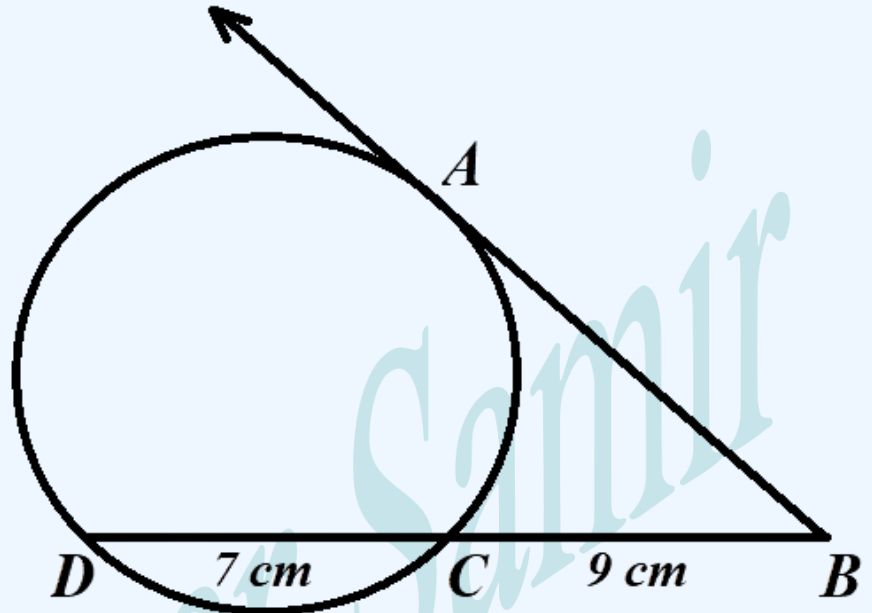


4) In the opposite figure:

\overrightarrow{BA} is a tangent, $BC = 9 \text{ cm}$, $CD = 7 \text{ cm}$, then

$AB = \underline{\hspace{2cm}} \text{ cm}$

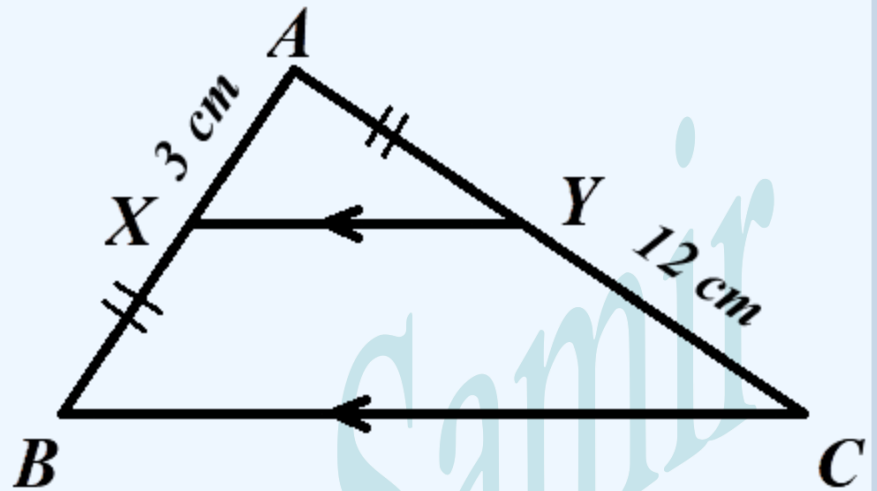
- a) 63
- b) 144
- c) 12
- d) $\frac{9}{16}$



5) In the opposite figure:

If $\overline{XY} \parallel \overline{BC}$, then $AC =$ _____ cm

- a) 15 b) 16
c) 18 d) 20



6) In the opposite figure:

$\overline{AB} \parallel \overline{XD} \parallel \overline{YE}$, then

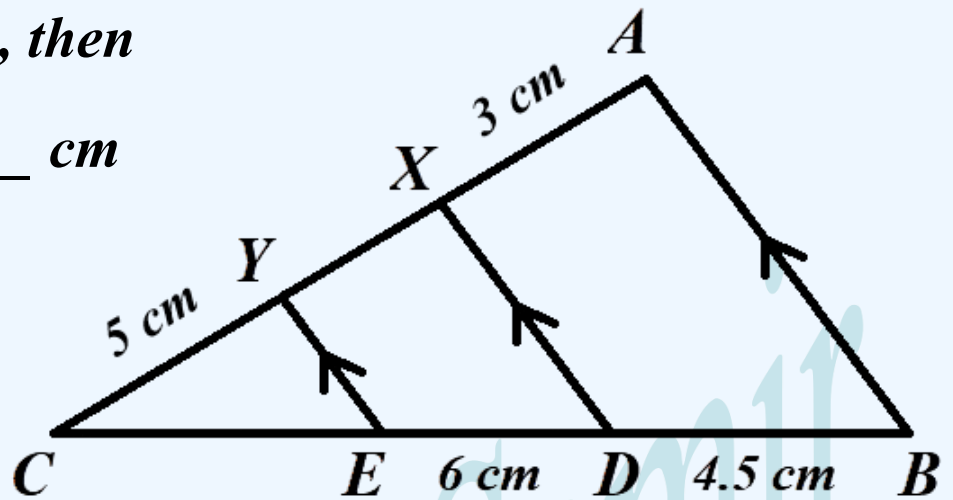
$XY + EC = \underline{\hspace{2cm}} \text{ cm}$

a) 11.5

b) 10

c) 11

d) 12



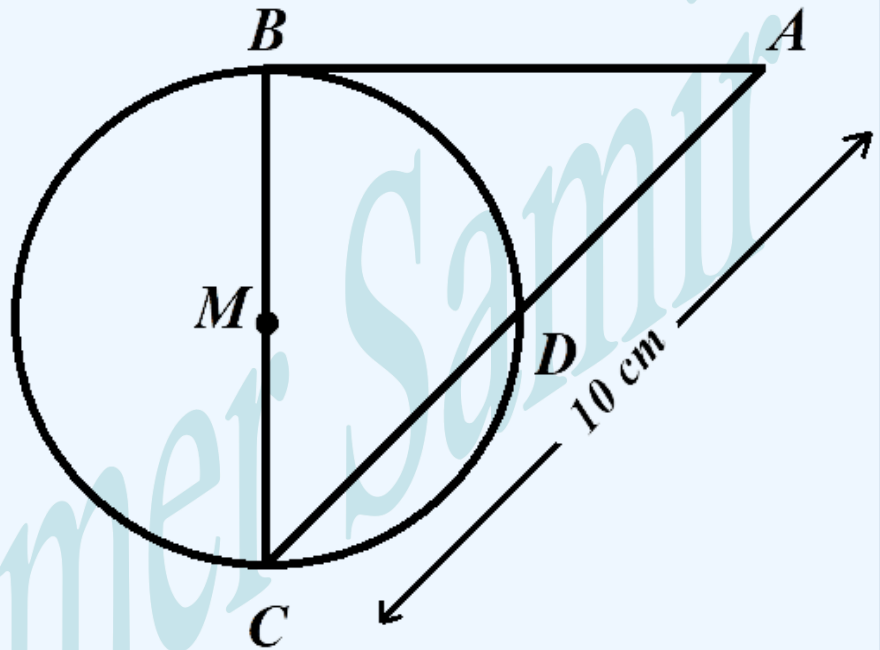
7) In the opposite figure:

\overline{AB} is a tangent of the circle at B , \overline{BC} is the diameter,

$BC = 8 \text{ cm}$, $AC = 10 \text{ cm}$, then the length of

$\overline{AD} = \underline{\hspace{2cm}} \text{ cm}$

- a) 3.6 b) 6.4
c) 4.8 d) 5



8) In the opposite figure:

A semicircle of center

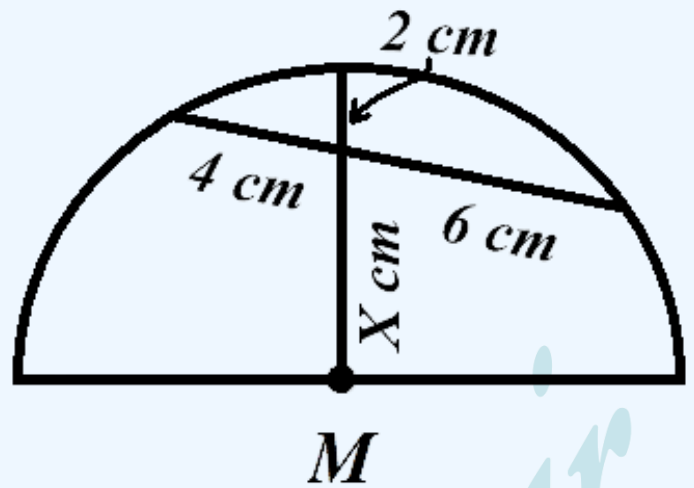
M , then $X = \underline{\hspace{2cm}}$ cm

a) 5

b) 7

c) 8

d) 12

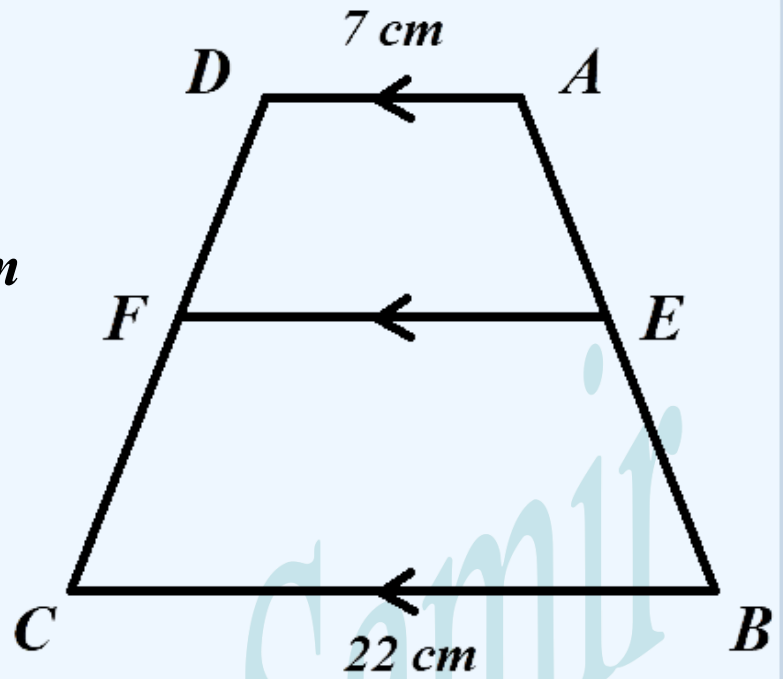


9) In the opposite figure:

$$\overline{AD} \parallel \overline{EF} \parallel \overline{BC},$$

$$\frac{AE}{EB} = \frac{2}{3}, \text{ then } EF = \underline{\hspace{1cm}} \text{ cm}$$

- a) 9 b) 11
c) 13 d) 15



10) In the opposite figure:

$\overline{MA} \perp \overline{EF}$ in circle M its

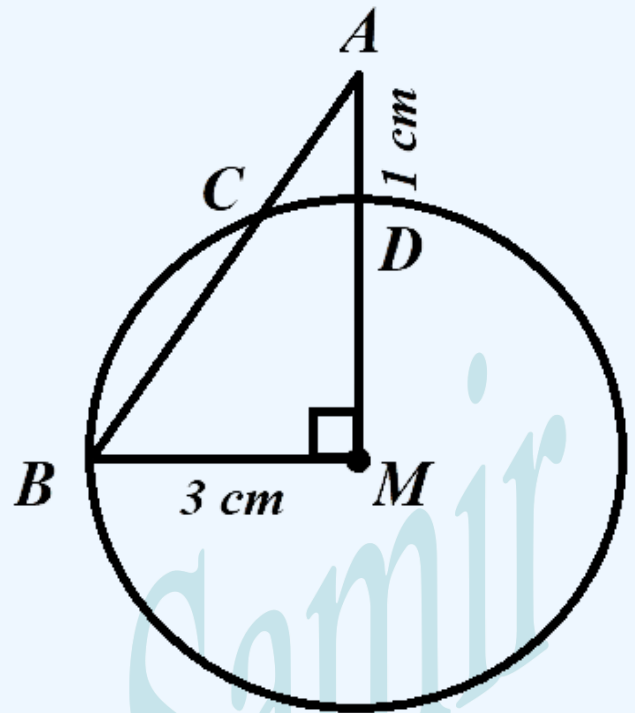
radius length = 3 cm,

$AM = 1$ cm, then

$BC =$ _____ cm

a) 3.6 b) 1.4

c) 5 d) 3



11) In the opposite figure:

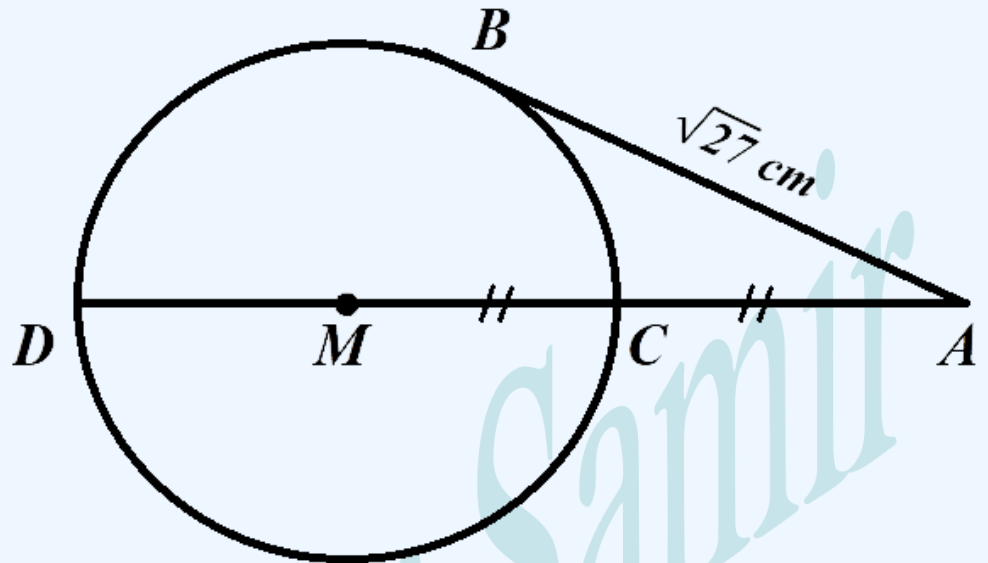
$MC = CA$, the radius length of the circle $M = \underline{\hspace{1cm}} \text{ cm}$

a) 2

b) 3

c) 4

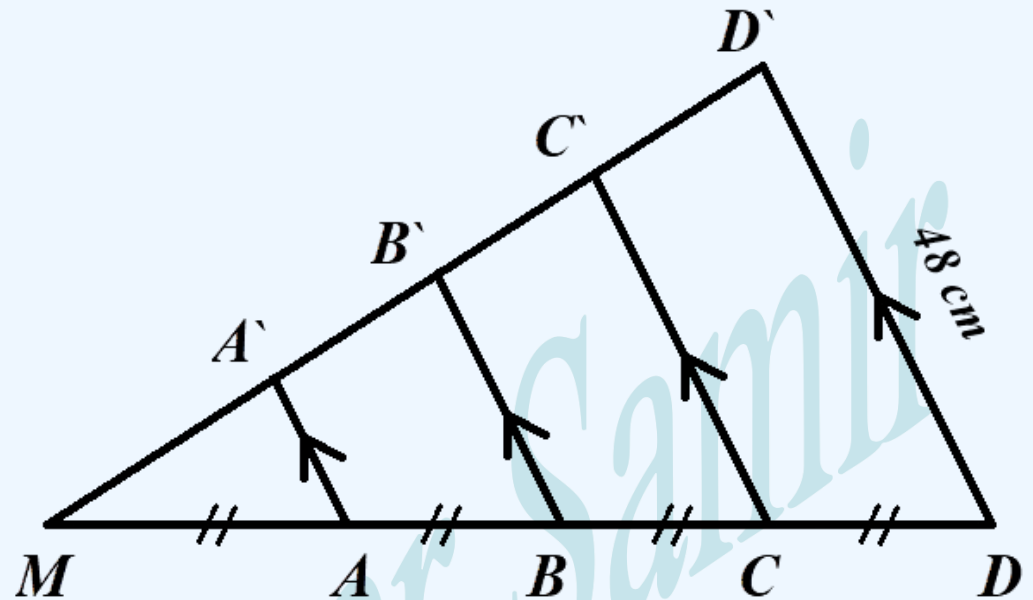
d) 5



12) In the opposite figure:

If $DD' = 48 \text{ cm}$, then $BB' = \underline{\hspace{1cm}} \text{ cm}$

- a) 36
- b) 24
- c) 16
- d) 12



13) In the opposite figure:

If $\overline{AB} \cap \overline{CD} = \{E\}$,

$AE = 3 \text{ cm}$, $CE = 2 \text{ cm}$,

$BE = 6 \text{ cm}$, then

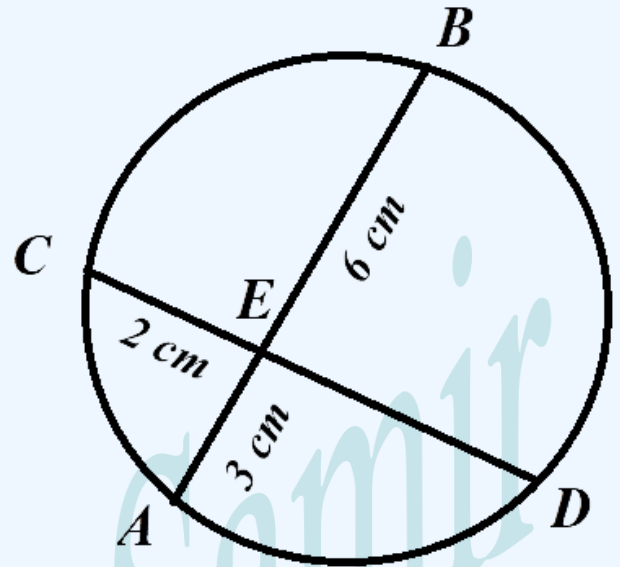
$CD = \underline{\hspace{2cm}} \text{ cm}$

a) 9

b) 8

c) 11

d) 6



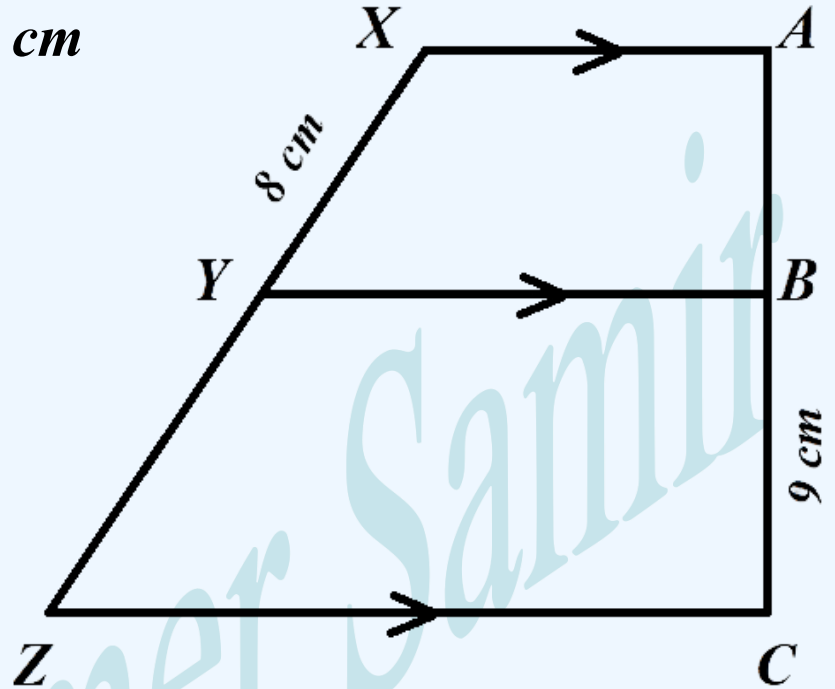
14) In the opposite figure:

$\overline{AX} \parallel \overline{BY} \parallel \overline{CZ}$, $YZ = 2AB$, $BC = 9 \text{ cm}$, $XY = 8 \text{ cm}$,

then $AB = \underline{\hspace{2cm}} \text{ cm}$

a) 5 b) 6

c) 10 d) 4

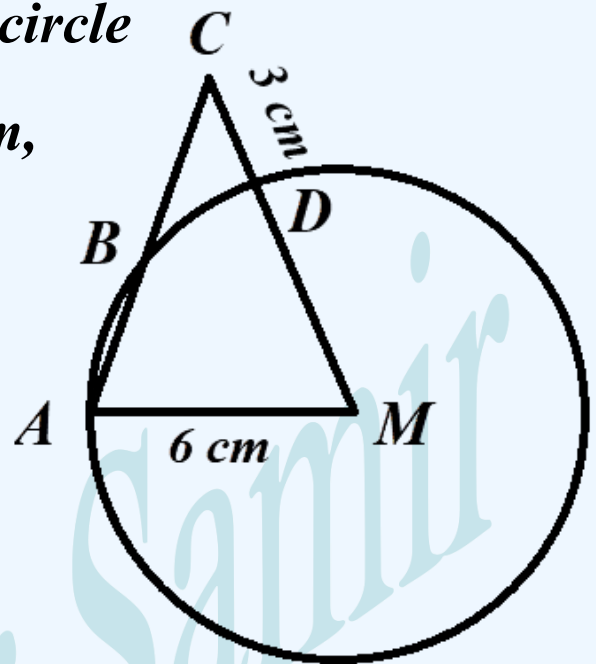


15) In the opposite figure:

If the length of the radius of a circle of center M is 6 cm, $CD = 3$ cm, $m(\angle A) = m(\angle M)$, then

$CB =$ _____ cm

- a) 5 b) 4
c) 3 d) 6



16) In the opposite figure:

$\overline{DH} \parallel \overline{BC}$, $CH = x$ cm,

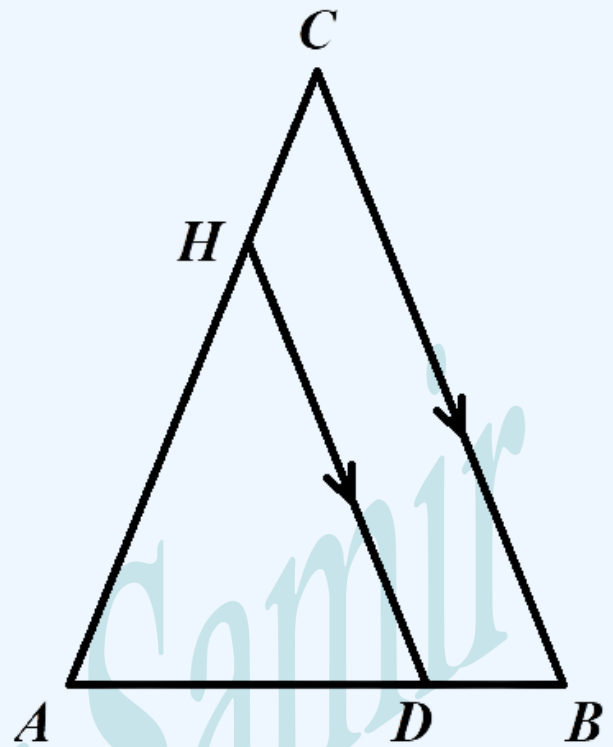
$AH = 12$ cm, $BD = 3$ cm,

$AD = (x + 5)$ cm, then

$x =$ _____ cm

a) 9 b) 12

c) 4 d) 3



17) In the opposite figure:

$$\overline{AB} \cap \overline{CD} = \{E\}, AE = x - 1, EB = x + 1,$$

$$CE = 3 \text{ cm}, ED = 8 \text{ cm},$$

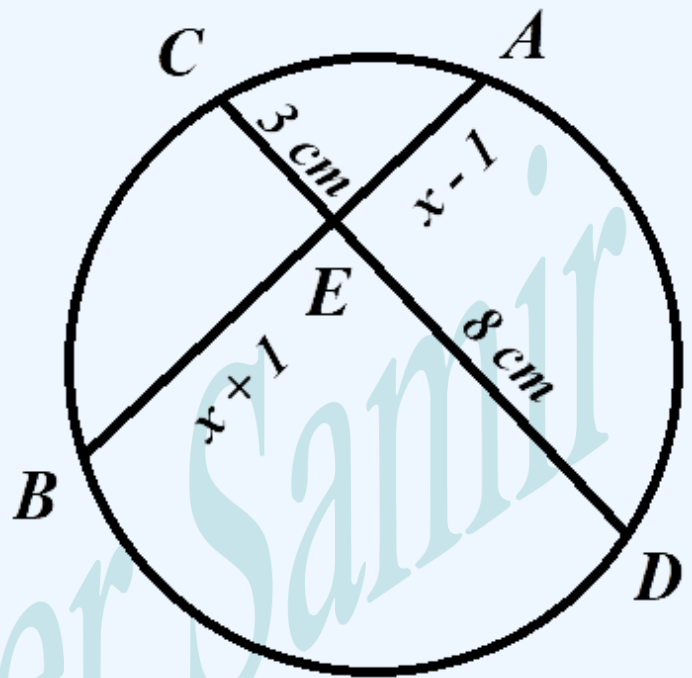
then $x =$ _____ cm

a) 3

b) 4

c) 5

d) 6



18) In the opposite figure:

\overrightarrow{AD} , \overrightarrow{AB} two tangents of the circle at D , B

respectively, \overrightarrow{CH} cut the circle at H , D and

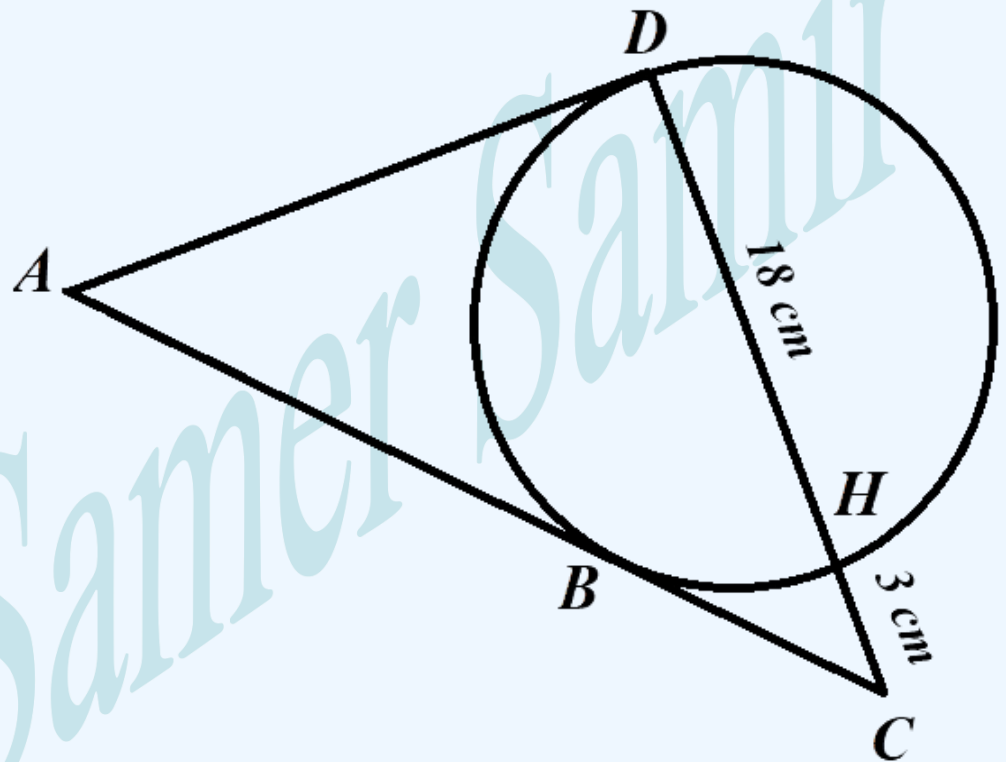
$CH = 3$ cm, $HD = 18$ cm, then $(AC - AD) =$ _____ cm

a) $7\sqrt{2}$

b) $7\sqrt{3}$

c) $2\sqrt{7}$

d) $3\sqrt{7}$



19) In the opposite figure:

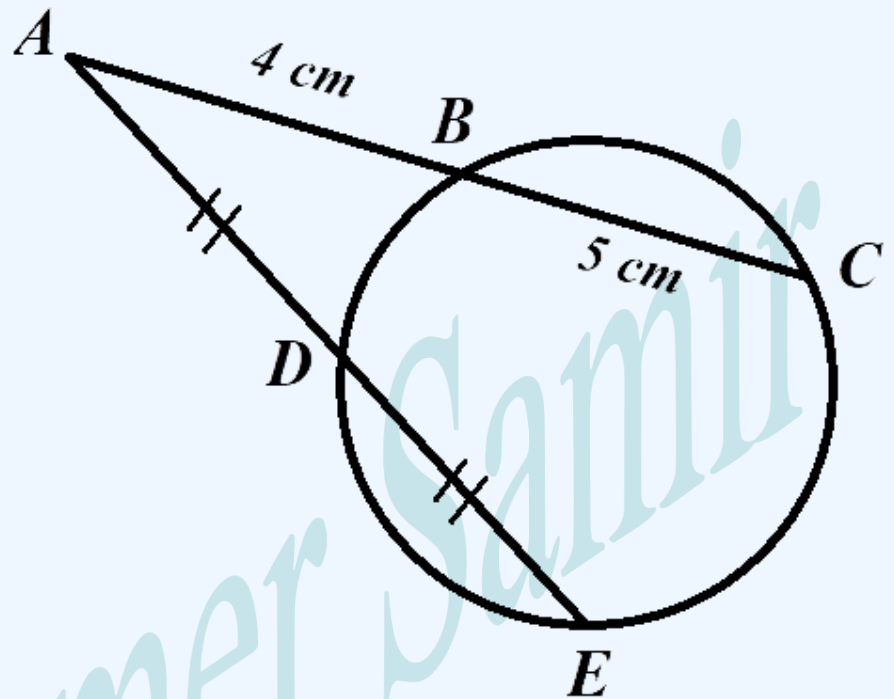
$AD = \underline{\hspace{2cm}} \text{ cm}$

a) $2\sqrt{3}$

b) $3\sqrt{2}$

c) 10

d) 4



20) In the opposite figure:

\overline{AB} is a diameter in the

circle, $AE = EM$,

$ED = 3\text{ cm}$, $EC = 4\text{ cm}$,

then the circumference

equals _____ cm

a) 4π

b) 8π

c) 16π

d) 20π

