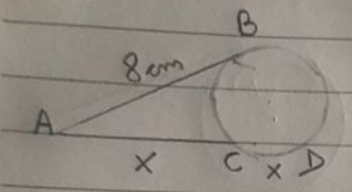
11 - 11 - 21

01-



$AB^2 = AC.AD$

$AB = 8$

$AC = CD = X$

$AD = (AC + AD)$

$AD = (AC + AD)$

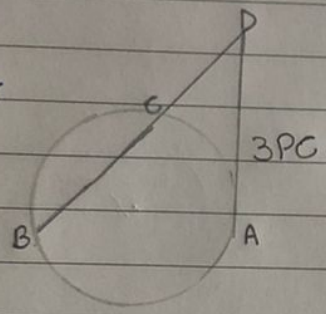
$8^2 = X(X + X)$

$64 = 2X^2$

$X^2 = \frac{64}{2}$

$X = \sqrt{32}$ ou $4\sqrt{2}$ | E |

02-



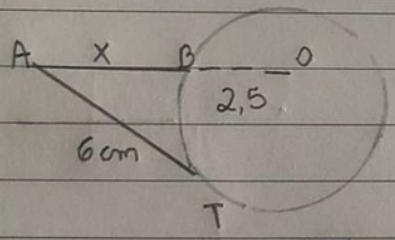
$\overline{PC}.\overline{PB} = \overline{PA}.\overline{PA}$

$PC.PB = 3PC^2$

$PC.PB = 9PC^2$

$PB = 9PC$ | B |

03-



$AB.AC = AT.AT$

$X.(X+5) = 6.6$

$X^2 + 5X = 36$

$X^2 + 5X - 36 = 0$

$\Delta = (5^2) - 4.1.(-36)$

$\Delta = 25 + 144$

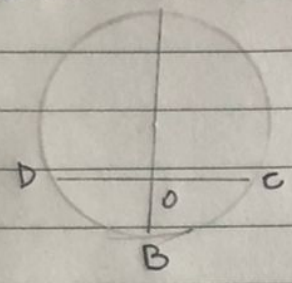
$\Delta = 169$

$X = \frac{-5 \pm \sqrt{169}}{2}$ → -9, 4

| E |

AS - M - M

04-



$EB \cdot AE = CE \cdot ED$

$3 = CE^2$

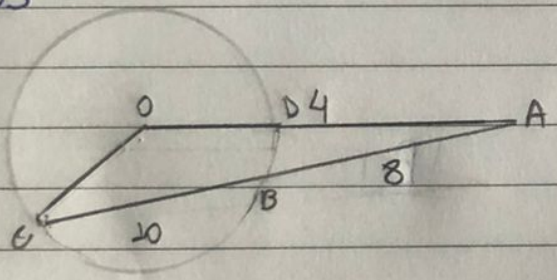
$CE = \sqrt{3}$

$CD = 2CE$

$\boxed{CD = 2\sqrt{3}}$ $\boxed{E}$

$CE = ED$

05



$AR \cdot AD = AC \cdot AB$

$(2R+4) \cdot 4 = 18 \cdot 8$

$8R + 16 = 144$

$8R = 144 - 16$

$R = 128 / 8 = 16$

- $AO = 4 + r$

$AO = 4 + 16 = 20\ cm$

$AC = 18\ cm$

$CO = r$

$CO = 16\ cm$

perímetro

$P = 20 + 18 + 16 = \boxed{54\ cm}$

$\boxed{R = 54\ cm}$