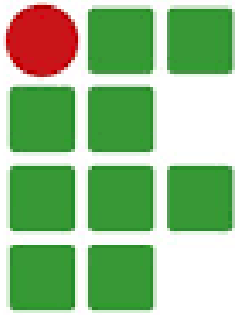

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SALA: 317

MATEMATICA

SEMANA 26

① $PA \cdot PB = PC \cdot PD \rightarrow 8 \cdot 8 = x(x+x)$

$64 = 2x^2$

$x^2 = \frac{64}{2} = 32$

$x = \sqrt{32} \rightarrow \sqrt{32} = \boxed{4\sqrt{2}}$

Resposta (E)

② $PA = 3PC$

$\frac{PB}{PA} = \frac{PA}{PC}$ $\rightarrow$ $PA^2 = PB \cdot PC$

$(3PC)^2 = PB \cdot PC$

$9PC^2 = PB \cdot PC$

$\boxed{9PC = PB}$

Resposta: (B)

③ $x^2 + 5x + (2,5)^2 = (2,5)^2 + 36$

$x^2 + 5x - 36 = 0 \rightarrow \Delta = 5^2 - (-36) \cdot 4 \cdot 1$

$x = \frac{-5 \pm 13}{2}$ $\Delta = 25 + 144 = 169$

$\boxed{x^+ = \frac{8}{2} = 4}$ $x^- = \frac{-5-13}{2} \rightarrow$ Negativo

Resposta (E)

④ $AE \cdot EB = 3$

$CE = ED$

$CE \cdot ED = AE \cdot EB = 3$ $\rightarrow$ $CE^2 = 3 \Rightarrow CD = CE + CB$

$CE = \sqrt{3}$ $CD = 2 \cdot CE$

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

Resposta: (B)

⑤ $4 \cdot (4 + 2R) = 18 \cdot 8$

$16 + 8R = 144$

$8R = 144 - 16$

$8R = 128$

$R = \frac{128}{8}$

$R = 16$

AC

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

Resposta: (E)