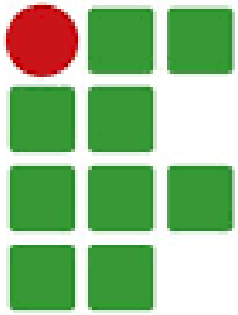

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SALA: 317

MATEMATICA

SEMANA 23

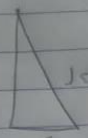
① $x^2 = (\sqrt{3})^2 + (\sqrt{4})^2$

$x^2 = 3 + 4$

$x = \sqrt{7}$

Resposta: (B)

②



$10^2 = 6^2 + x^2$

$100 = 36 + x^2$

$x^2 = 64$

$x = 8$

Resposta: (B)

③ $x^2 = 1^2 + 2^2$

$x^2 = 1 + 4$

$x = \sqrt{5}$

$3^2 = (\sqrt{5})^2 + y^2$

$9 = 5 + y^2$

$y^2 = 4$

$y = 2$

Resposta: (B)

④ $y^2 = a^2 + a^2$

$y^2 = 2a^2$

$y = 2a$

$z^2 = a^2 + 2a^2$

$z^2 = 3a^2$

$z = 3a$

$x^2 = 3a^2 + a^2$

$x^2 = 4a^2$

$x = \sqrt{4a^2} = 2a$

Resposta: (B)

⑤ $6^2 = 2^2 + x^2$

$36 = 4 + x^2$

$x^2 = 32$

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

$A = \frac{2 \cdot 4\sqrt{2}}{2}$

$A = 4\sqrt{2}$

Resposta: (C)

⑥ $x^2 = 6^2 + 8^2$

$x^2 = 36 + 64$

$x^2 = 100$

$x = 10$

$10^2 = x^2 + (2x)^2$

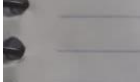
$100 = 5x^2$

$x = 2\sqrt{5}$

Resposta: (A)

⑦ A = 16 x 5 = 80

F = 18 x 5 = 90



$x^2 = 1,44 + 0,025$

$x^2 = 1,465$

$X = \sqrt{1,465} = 1,21 \simeq 1,3m$

Resposta: (B)

⑧ $8^2 = 4^2 + x^2$

$64 = 16 + x^2$

$x^2 = 48$

$x = \sqrt{48} = 4\sqrt{3}$

$13^2 = (x+4)^2 + (4\sqrt{3})^2$

$(x+4)^2 + (4\sqrt{3})^2 = 13^2$

$(x+4)^2 + (4\sqrt{3})^2 - (4\sqrt{3})^2 = 13^2 - (4\sqrt{3})^2$

$(x+4)^2 = 121$

$x+4 = \sqrt{121}$

$x = 11 - 4 = 7$

Resposta: (D)

⑨ $15^2 = h^2 + n^2$

$13^2 = h^2 + m^2$

$m + n = 14$

$15^2 - 13^2 = n^2 - m^2$

$2.28 = 14.(m-n)$

$m - n = 4$

$n = 9$

$15^2 = h^2 + 9^2$

$h^2 = 144$

$h = 12$

Resposta: 12

⑩ $(R+r)^2 = (R-r)^2 + x^2$

$x^2 = (2R).(2r)$

$x = 2\sqrt{Rr}$

Resposta: $2\sqrt{Rr}$

⑪ $x^2 = 40^2 + 30^2$

$x^2 = 1600 + 900$

$x^2 = 2500$

$x = \sqrt{2500} = 50$

$c^2 = a.n$

$20^2 = 50.n$

$400 = 50n$

$n = \frac{40x}{50} = 8$

Resposta: (C)