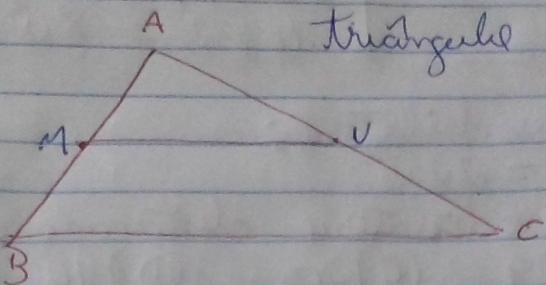


8 8 8 8 8 8

- ~~(A) $4\sqrt{2}$~~ (B) 4 (C) $3\sqrt{3}$ (D) $\frac{8\sqrt{3}}{3}$
 (E) $7\sqrt{3}$

11)



triángulo

$$\begin{array}{l} \triangle ABC \sim \triangle AMN \\ BC = 2MN \\ BC : MN = 2 \\ K = 2 \end{array} \quad \left| \begin{array}{l} 96/x = k^2 \\ 96/x = 2^2 \\ \frac{96}{x} = 4 \\ x = \frac{96}{4} \\ x = 24 \end{array} \right.$$

$$1^{\circ} \text{ triángulo} = 96 \text{ m}^2$$

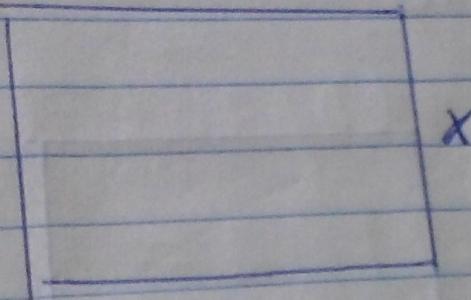
$$2^{\circ} \text{ triángulo} = 24 \text{ m}^2$$

$$\text{Área do quadrilátero} = 96 - 24$$

$$\underline{\underline{A = 72 \text{ m}^2}}$$

b) Uperimetrele este egală ($=$) 1,2 m

(02)



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

$$y = \sqrt{2}x$$

(A) $y = 2x$

(B) $y = \frac{\sqrt{3}}{3}x$

C) $y = 1,5x$

~~(D) $y = \sqrt{2}x$~~

(E) $y = 1,33x$

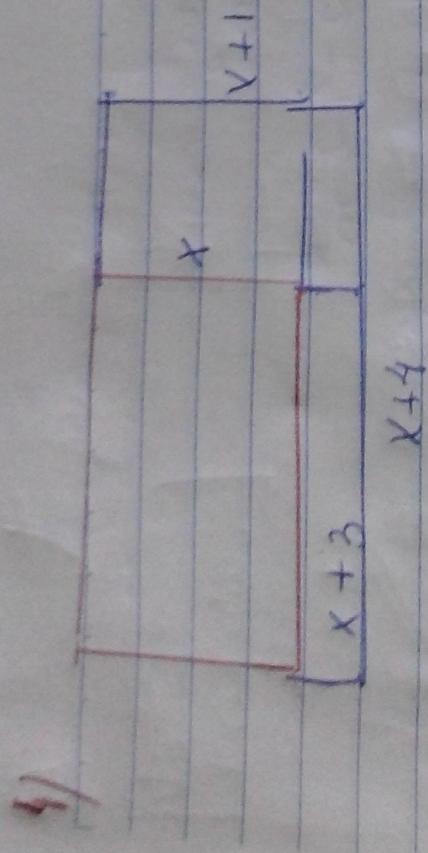
data
 fecha
 • •
 D S T Q O S S
 D L M M J V S

~~(3)~~

$$\begin{array}{r}
 10 \cdot x = 15 \\
 \hline
 2
 \end{array}
 \quad
 \begin{array}{l}
 10x = 2,15 \quad x = 3 \\
 10x = 30
 \end{array}$$

(A) 4 (B) 3,5 (C) 2 ~~(D)~~ 3 (E) 4,5

data
 fecha
 ○○○○○○○○○○
 ○○○○○○○○○○
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Área do jardim antes da ampliação = $x(x+3)$

Área do jardim depois da ampliação = $(x+1)(x+4)$

$$\begin{aligned}
 & x(x+3) + 16 = (x+1)(x+4) \\
 & x^2 + 3x + 16 = x^2 + x + 4x + 4 \\
 & 3x + 16 = 5x + 4 \\
 & 16 = 2x + 4 \\
 & 12 = 2x \\
 & x = \frac{12}{2} \\
 & x = 6
 \end{aligned}$$

12 13 14 15

$$\begin{array}{l}
 \text{5) } h^2 = a^2 + b^2 \\
 2^2 = l^2 + b^2 \\
 4 = l^2 + b^2 \\
 b^2 = 3 \\
 b = \sqrt{3}
 \end{array} \quad \left| \frac{2 \cdot \sqrt{3}}{2} = \cancel{\sqrt{3}}$$

A) $\frac{\sqrt{3}}{2}$

(B) $\sqrt{3}$

(C) $2\sqrt{3}$

(D) $\frac{\sqrt{3}}{4}$

(E) $4\sqrt{3}$

D S T O Q S G
D L M J Y

6)
 $1^{\circ} \quad 2,5 \times 1,2 = 3 \text{ m}^2$
 $2^{\circ} \quad 4,8 \times 4,8 = 36 \text{ m}^2$
 $3^{\circ} \quad 9,0 \times 0,8 = 32 \text{ m}^2$

O total = $3 + 36 + 32 = 42 \text{ m}^2$

- a) 37,2 (B) 38,2 (C) 40,2 (D) 41,2 (E) ~~42~~

7) $AB = 2 \cdot DC$

$(x+2x)h/2 = 36 \text{ cm}^2$

$(3x \cdot h)/2 = 36 \cdot 2$

$3x \cdot h = 72$

$x \cdot h = 72/3$

$x \cdot h = \frac{72}{3}$

$x \cdot h = 24 \text{ cm}^2$

- (A) 14 (B) 16 (C) 18 (D) 20 (E) ~~24~~

8) Área do triângulo : $(6 \cdot 4)/2 =$
 $24/2 = 12 \text{ cm}^2$

Área de losango : $\frac{d_1 \cdot d_2}{2} = (2 \cdot 6)/2$
 $12/2 = 6 \text{ cm}^2$

Área do losango = $\frac{6 \text{ cm}^2}{12 \text{ cm}^2} = \frac{1}{2} = 0,5 \text{ cm}^2$
 Área do triângulo

- a) $\frac{1}{4}$ (B) $\frac{1}{5}$ (C) $\frac{1}{4}$ (D) $\frac{1}{2}$ (E) $\frac{2}{5}$

$$9) \begin{aligned} 48 &= 4x \\ 48 &= 12x^2 \quad | :3 \\ 48/12 &= x^2 \\ 4 &= x^2 \\ \sqrt{4} &= x \\ x &= 2\sqrt{2} \end{aligned} \quad \left| \begin{array}{l} \text{1º Triângulo} \\ 6 \cdot 8 / 2 = 36 / 2 = 18 \text{ u}^2 \end{array} \right.$$

$$\left| \begin{array}{l} \text{2º Triângulo} \\ (8 \cdot 2) \sqrt{2} = \\ 16 / 2 = 8 \text{ u}^2 \end{array} \right.$$

Área do quadrilátero:

$$48 - 18 - 8 = 22 \text{ u}^2$$

A área do quadrilátero destacado é:

- (A) 32 (B) 24 (C) 20 (D) 16 (E) 12

$$10) \quad \begin{array}{l} \text{1º Triângulo} \\ (8 \cdot 6) / 2 = 24 \end{array}$$

$$\begin{array}{l} \text{2º triângulo} \\ 24 / 2 = 12 \end{array}$$

$$\frac{AB}{AD} = k \quad \text{então} \quad \frac{24}{12} = k^2$$

$$k^2 = 2$$

$$k = \sqrt{2}$$

$$\frac{8}{AD} = \sqrt{2}$$

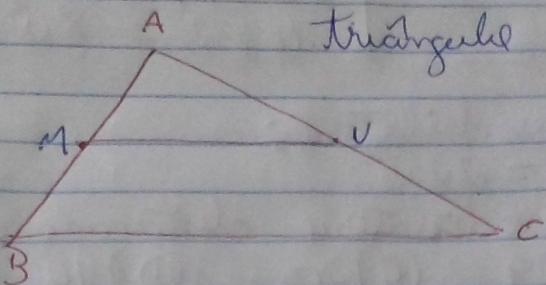
$$\begin{aligned} 8 &= AD \cdot \sqrt{2} \\ 8/\sqrt{2} &= A \cdot D \end{aligned}$$

$$\begin{aligned} 8/\sqrt{2} \cdot \sqrt{2} \cdot \sqrt{2} \\ 8/\sqrt{2}/2 = 4\sqrt{2} \end{aligned}$$

8 8 8 8 8 8

- ~~(A) $4\sqrt{2}$~~ (B) 4 (C) $3\sqrt{3}$ (D) $\frac{8\sqrt{3}}{3}$
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$$1^{\circ} \text{ triángulo} = 96 \text{ m}^2$$

$$2^{\circ} \text{ triángulo} = 24 \text{ m}^2$$

$$\text{Área do quadrilátero} = 96 - 24$$

$$\underline{\underline{A = 72 \text{ m}^2}}$$