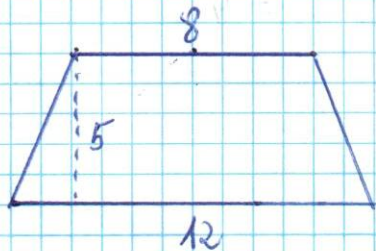


140212

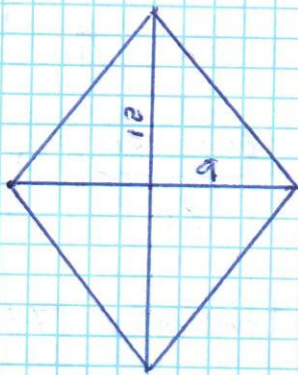
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17a



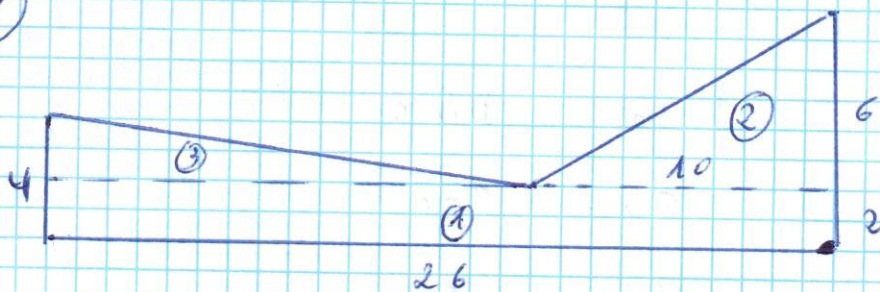
$$A = \frac{(b+B) \cdot h}{2} = \frac{(12+8) \cdot 5}{2} = \underline{\underline{50 \text{ cm}^2}}$$

17b



$$A = \frac{D \cdot d}{2} = \frac{12 \cdot 9}{2} = \underline{\underline{54 \text{ cm}^2}}$$

18



$$\text{Area total} = A_1 + A_2 + A_3$$

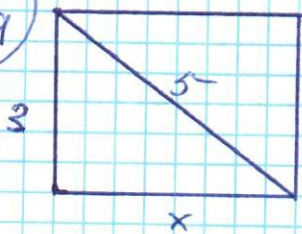
$$A_1 = 26 \cdot 2 = 52 \text{ cm}^2$$

$$A_2 = \frac{10 \cdot 6}{2} = 30 \text{ cm}^2$$

$$A_3 = \frac{2 \cdot 16}{2} = 16 \text{ cm}^2$$

$$A_t = 52 + 30 + 16 = 98 \text{ cm}^2$$

19



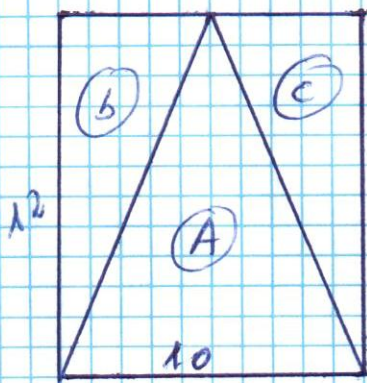
$$5^2 = 3^2 + x^2 // x^2 = 5^2 - 3^2 = 16$$

$$x = \sqrt{16} = 4 // x = 4$$

$$A = 3 \cdot 4 = \underline{\underline{12 \text{ cm}^2}}$$

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(20)



$$A_A = \frac{10 \cdot 12}{2} = \underline{\underline{60 \text{ cm}^2}}$$

$$A_b = \frac{5 \cdot 12}{2} = \underline{\underline{30 \text{ cm}^2}}$$

$$A_c = A_b = \underline{\underline{30 \text{ cm}^2}}$$

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(66)

$$a_4 = a_1 + (n-1) \cdot d // 40 = 7 + 3 \cdot d //$$

$$d = \frac{40 - 7}{3} = \frac{33}{3} = 11 // \underline{\underline{d = 11}}$$

$$a_{15} = a_1 + (n-1) \cdot d = 7 + 14 \cdot 11 = 161$$

$$S_{15} = \frac{(a_1 + a_{15}) \cdot n}{2} = \frac{(7 + 161) \cdot 15}{2} = \underline{\underline{1.260}}$$

(75) a)  $a_n = a_1 \cdot r^{n-1} = 3 \cdot 5^{n-1}$

b)  $a_7 = a_1 \cdot r^{n-1} = 3 \cdot 5^6 = 3 \cdot 15.625 = \underline{\underline{46.875}}$

(76) a)  $\frac{2}{3}, \frac{2}{9}, \frac{2}{27}, \frac{2}{81}$

$$\frac{\frac{2}{9}}{\frac{2}{3}} = \frac{2 \cdot 3}{2 \cdot 9} = \frac{6}{18} = \frac{1}{3}$$

$$\frac{\frac{2}{27}}{\frac{2}{9}} = \frac{2 \cdot 9}{2 \cdot 27} = \frac{18}{54} = \frac{1}{3}$$

$$\frac{\frac{2}{81}}{\frac{2}{27}} = \frac{2 \cdot 27}{2 \cdot 81} = \frac{54}{162} = \frac{1}{3}$$

$$r = \frac{1}{3}$$

b)  $a_{10} = a_1 \cdot r^{n-1} = \frac{2}{3} \cdot \left(\frac{1}{3}\right)^9 = \frac{2}{3} \cdot \frac{1}{3^9} = \frac{2}{3^{10}} = \frac{2}{59.049}$

(83)  $a_1 = 5 // r = 3$

$$S_n = \frac{a_1 (r^n - 1)}{r - 1} = 5 \cdot \frac{r^n - 1}{r - 1}$$

$$S_8 = \frac{5 (3^8 - 1)}{3 - 1} = \frac{5 \cdot (6.561 - 1)}{2} = \underline{\underline{16.400}}$$

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(98)  $a_1 = 0'75 // r = 1'2$

$$a_n = a_1 \cdot r^{n-1}$$

$$a_{10} = 0'75 \cdot 1'2^9 = 0'75 \cdot 5'16 = \underline{\underline{3'87 \text{ m}}}$$

habrá crecido  $3'87 - 0'75 = \underline{\underline{3'12 \text{ m}}}$

(99)  $a_1 = 1 \cdot \frac{1}{2} = \frac{1}{2} \text{ m.} // r = \frac{1}{2}$

$$a_n = a_1 \cdot r^{n-1}$$

$$a_5 = \frac{1}{2} \cdot \left(\frac{1}{2}\right)^4 = \frac{1}{2} \cdot \frac{1}{2^4} = \frac{1}{2^5} = \frac{1}{32} = 0'031 \text{ m.}$$

$a_5 = 31 \text{ mm.}$

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(106)  $C_i = 5.000 \text{ €} // r = 4\% \text{ anual} // t = 6 \text{ años}$

$$C_f = C_i \cdot \left(1 + \frac{r}{100}\right)^t$$

$$C_{f1} = 5.000 \cdot \left(1 + \frac{4}{100}\right)^1 = 5.000 \cdot 1'04 = 5.200 \text{ €}$$

$$C_{f2} = 5.000 \cdot \left(1 + \frac{4}{100}\right)^2 = 5.000 \cdot (1'04)^2 = 5.408 \text{ €}$$

$$C_{f3} = 5.000 \cdot \left(1 + \frac{4}{100}\right)^3 = 5.000 \cdot (1'04)^3 = 5.624'32 \text{ €}$$

$$C_{f4} = 5.000 \cdot \left(1 + \frac{4}{100}\right)^4 = 5.000 \cdot (1'04)^4 = 5.849'29 \text{ €}$$

$$C_{f5} = 5.000 \cdot \left(1 + \frac{4}{100}\right)^5 = 5.000 \cdot (1'04)^5 = 6.083'26 \text{ €}$$

$$C_{f6} = 5.000 \cdot \left(1 + \frac{4}{100}\right)^6 = 5.000 \cdot (1'04)^6 = 6.326'60 \text{ €}$$