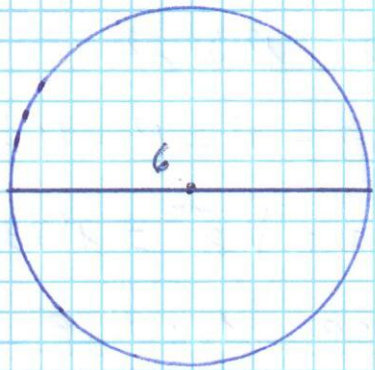


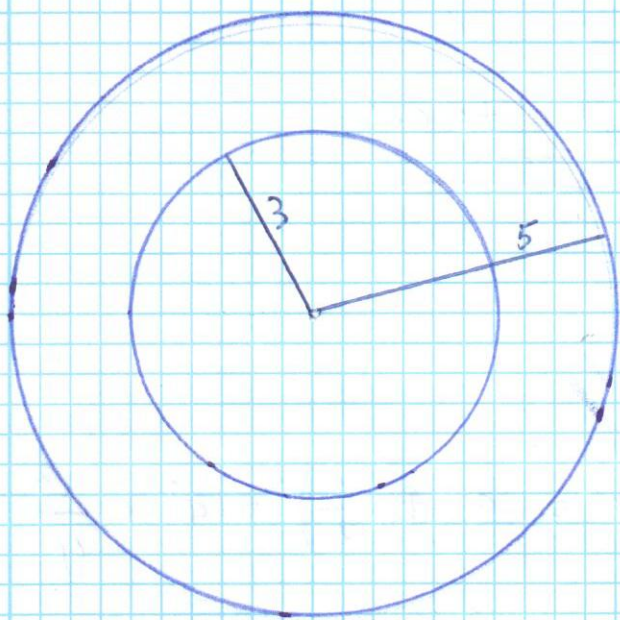
26

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$$A = \pi \cdot r^2 = 3,14 \cdot 3^2 = \underline{\underline{28,26 \text{ cm}^2}}$$

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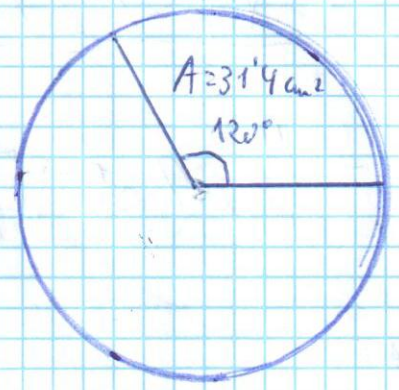


$$A = \pi (R^2 - r^2) = 3,14 (5^2 - 3^2) = 3,14 \cdot 16 = \underline{\underline{50,24 \text{ cm}^2}}$$

$$A_{\text{major}} = \pi \cdot R^2 = 3,14 \cdot 5^2 = \underline{\underline{78,5 \text{ cm}^2}}$$

$$A_{\text{minor}} = \pi \cdot r^2 = 3,14 \cdot 3^2 = \underline{\underline{28,26}}$$

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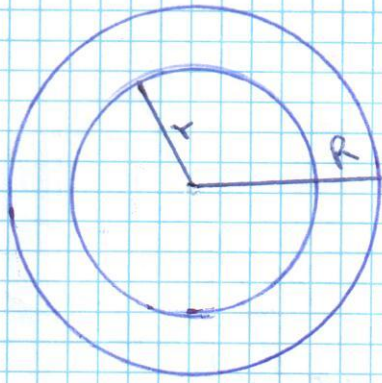


$$A = \frac{\pi \cdot r^2 \cdot \alpha}{360} \quad // \quad 3,14 = \frac{3,14 \cdot r^2 \cdot 120}{360}$$

$$r^2 = \frac{31,4 \cdot 360}{3,14 \cdot 120} = 30$$

$$r = \sqrt{30} = \underline{\underline{5,48}}$$

(29)



$$A_{\text{mayor}} = A_m$$

$$A_{\text{pequeña}} = A_p$$

$$A_m - A_p = \frac{A_m}{2}$$

$$A_p = A_m - \frac{A_m}{2} = \frac{A_m}{2}$$

$$A_p = \frac{A_m}{2}$$

$$\pi r^2 = \frac{\pi \cdot R^2}{2} \quad // \quad r^2 = \frac{\cancel{\pi} \cdot R^2}{\cancel{\pi}} \quad // \quad r^2 = \frac{R^2}{2}$$

$$r = \frac{\sqrt{R^2}}{\sqrt{2}} = \frac{R}{\sqrt{2}} \quad // \quad r = \frac{R}{\sqrt{2}} \quad // \quad \underline{\underline{R = r \cdot \sqrt{2}}}$$

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(68)

$$S = \frac{(a_1 + a_n) \cdot n}{2}$$

$$a_n = a_1 + (n-1) \cdot d = 1 + (n-1) \cdot 2 = 1 + 2n - 2 = 2n - 1$$

$$a_n = 2n - 1$$

$$2.916 = \frac{(1 + 2n - 1) \cdot n}{2} = \frac{2n^2}{2} \quad // \quad n^2 = 2.916$$

$$n = \sqrt{2916} = \underline{\underline{54}}$$

(69)

$$a_n = a_1 + (n-1) \cdot d \quad //$$

$$a_{12} = 7 + (12-1) \cdot 4 = 7 + 44 = 51 \quad // \quad a_{12} = 51$$

$$S_{12} = \frac{(a_1 + a_{12}) \cdot n}{2} = \frac{(7 + 51) \cdot 12}{2} = \frac{58 \cdot 12}{2} = \underline{\underline{348}}$$

(78) $a_n = a_1 \cdot r^{n-1} = \underline{\underline{3 \cdot 2^{n-1}}}$

(79) $a_q = a_p \cdot r^{(q-p)}$

$a_4 = a_2 \cdot r^{(4-2)} \quad // \quad 2.400 = 60 \cdot r^2$

$r^2 = \frac{2.400}{60} = 40 \quad // \quad r = \sqrt{40} = \underline{\underline{2\sqrt{10}}}$

a) $a_2 = a_1 \cdot r^{n-1}$

$60 = a_1 \cdot (2\sqrt{10})^{2-1}$

$a_1 = \frac{60}{2\sqrt{10}} = \frac{30}{\sqrt{10}}$

$a_2 = 60$

$a_3 = 60 \cdot 2\sqrt{10} = 120\sqrt{10}$

$a_4 = 120\sqrt{10} \cdot 2\sqrt{10} = 240 \cdot 10 = 2.400$

$a_5 = 2.400 \cdot 2\sqrt{10} = 4.800 \cdot \sqrt{10}$

b) $a_n = a_1 \cdot r^{n-1} \quad // \quad a_n = \underline{\underline{\frac{30}{\sqrt{10}} \cdot (2\sqrt{10})^{n-1}}}$

c) $a_6 = 4.800 \cdot \sqrt{10} \cdot 2\sqrt{10} = 96.000$

$a_7 = 96.000 \cdot 2\sqrt{10} = 192.000 \cdot \sqrt{10}$

$a_8 = 192.000 \cdot \sqrt{10} \cdot 2\sqrt{10} = 3.840.000$

$a_9 = 3.840.000 \cdot 2\sqrt{10} = 7.680.000 \cdot \sqrt{10}$

$a_{10} = 7.680.000 \cdot \sqrt{10} \cdot 2\sqrt{10} = 153.600.000$

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(86) $a_1 = 2 / r = 0.1$

a) Suma de los seis primeros términos.

$$S_6 = \frac{a_1 (r^6 - 1)}{r - 1} = \frac{2 \cdot (0.1^6 - 1)}{0.1 - 1} = \frac{2 \cdot (0.000001 - 1)}{-0.9} = \frac{2 \cdot (-0.999999)}{-0.9} = \frac{-1.999998}{-0.9} = \underline{\underline{2.2}}$$

b) Suma de todos los términos

$$S = \frac{a_1}{1 - r} = \frac{2}{1 - 0.1} = \frac{2}{0.9} = \underline{\underline{2.2}}$$

(107)

$$C_f = C \left(1 + \frac{r}{100} \right)^4$$

$$1.500 = C \left(1 + \frac{5}{100} \right)^4 = C \cdot 1.05^4 = C \cdot 1.2155$$

$$1.500 = C \cdot 1.2155$$

$$C = \frac{1.500}{1.2155} = 1.23406 \text{ €}$$