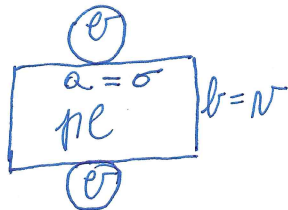
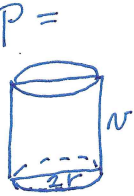


③ PLASČ

$$a = 6,28 \text{ dm} = \sigma_k$$

$$b = 4 \text{ dm} = N$$

$$P =$$



$$a = \sigma_k$$

$$\sigma = 2\pi r$$

$$r = \frac{\sigma}{2\pi} = \frac{6,28}{2 \cdot 3,14}$$

$$r = 1 \text{ dm}$$

$$pl = a \cdot b$$

$$pl = 6,28 \cdot 4$$

$$pl = 25,12 \text{ dm}^2$$

$$V = \pi r^2$$

$$V = \pi \cdot 1^2$$

$$V = 3,14 \text{ dm}^2$$

$$P = 2V + pl$$

$$P = 2 \cdot 3,14 + 25,12$$

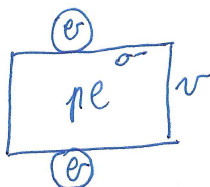
$$P = 6,28 + 25,12$$

$$P = 31,4 \text{ dm}^2$$

④ $V = 12,56 \text{ m}^2$

$$N = 5 \text{ m}$$

$$P =$$



$$V = \pi r^2$$

$$r^2 = \frac{V}{\pi}$$

$$r^2 = \frac{12,56}{3,14}$$

$$r = \sqrt{4}$$

$$r = 2 \text{ m}$$

$$pl = 2\pi r \cdot N$$

$$pl = 2 \cdot 3,14 \cdot 2 \cdot 5$$

$$pl = 62,8 \text{ m}^2$$

$$P = 2V + pl$$

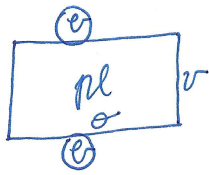
$$P = 2 \cdot 12,56 + 62,8$$

$$P = 87,92 \text{ m}^2$$

⑤ $V = 90 \text{ cm}^2$

$$N = 5 \cdot r$$

$$P_{\text{os.p.}} =$$



$$V = \pi r^2$$

$$r^2 = \frac{V}{\pi}$$

$$r^2 = \frac{90}{\pi}$$

$$r = \sqrt{9}$$

$$r = 3 \text{ cm}$$

$$N = 5 \cdot r$$

$$N = 5 \cdot 3$$

$$N = 15 \text{ cm}$$

$$pl = 2\pi r \cdot N$$

$$pl = 2\pi \cdot 3 \cdot 15$$

$$pl = 90\pi \text{ cm}^2$$

$$P = 2V + pl$$

$$P = 2 \cdot 90 + 90\pi$$

$$P = 108\pi \text{ cm}^2$$

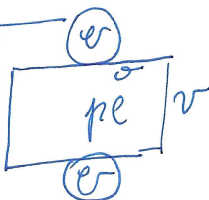
$$P_{\text{os.p.}} = d \cdot N$$

$$= 6 \cdot 15 =$$

$$= 90 \text{ cm}^2$$

⑥ $P = 300\pi \text{ cm}^2$

$$pl = V$$



$$P = 2V + pl$$

$$P = 2V + V$$

$$P = 3V$$

$$V = \frac{P}{3}$$

$$V = \frac{300\pi}{3}$$

$$V = 100\pi \text{ cm}^2$$

$$V = \pi r^2$$

$$r^2 = \frac{V}{\pi}$$

$$r^2 = \frac{100\pi}{\pi}$$

$$r = \sqrt{100} = 10 \text{ cm}$$

① GESLO : PRESEK

a) PL

b) KROG

c) MREŽA

d) PLOSKVE

e) PREMER

f) PRAVOKOTNIK

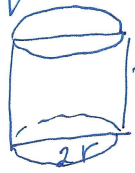
② V (a) primeru nastane enakokranični valj

⑦ ENAKOSTRANIČNI VALJ

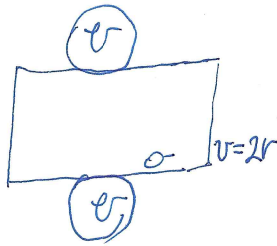
$$P = 471 \text{ cm}^2$$

$$r =$$

$$V =$$



$$v = 2r$$



$$P = 2\sigma + pl$$

$$P = 2\pi r^2 + 2\pi r \cdot 2r$$

$$P = 2\pi r^2 + 4\pi r^2$$

$$P = 6\pi r^2$$

$$P = 6\pi r^2$$

$$r^2 = \frac{P}{6\pi}$$

$$r^2 = \frac{471}{6 \cdot 3,14}$$

$$r^2 = 25$$

$$r = 5 \text{ cm}$$

$$V = \sigma \cdot n$$

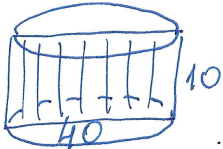
$$V = \pi r^2 \cdot 2r$$

$$V = 2\pi r^3$$

$$V = 2\pi \cdot 5^3$$

$$V = 250\pi \text{ cm}^3$$

⑧



$$2r = 40 \text{ cm}$$

$$r = 20 \text{ cm}$$

$$v = 10 \text{ cm}$$

$$P =$$

$$V =$$

$$\sigma = \pi r^2$$

$$\sigma = \pi \cdot 20^2$$

$$\sigma = 400\pi \text{ cm}^2$$

$$pl = 2\pi r \cdot v$$

$$pl = 2\pi \cdot 20 \cdot 10$$

$$pl = 400\pi \text{ cm}^2$$

$$V = \sigma \cdot n$$

$$V = 400\pi \cdot 10$$

$$V = 4000\pi \text{ cm}^3$$

$$P = 2\sigma + pl$$

$$P = 2 \cdot 400\pi + 400\pi$$

$$P = 1200\pi \text{ cm}^2$$

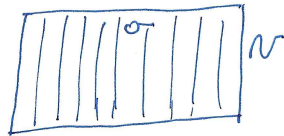
⑨ CESTNI VALJAR

$$d = 2r = 0,4 \text{ m} = 4 \text{ dm}$$

$$r = 2 \text{ dm}$$

$$v = 1,5 \text{ m} = 15 \text{ dm}$$

$$pl =$$



$$pl = 2\pi r \cdot v$$

$$pl = 2\pi \cdot 2 \cdot 15$$

$$pl = 60\pi \text{ dm}^2$$

20 obrotov

$$20 \cdot 60\pi =$$

$$= 1200\pi =$$

$$= 3768 \text{ dm}^2 = 37,68 \text{ m}^2$$

⑩ 6-VALJNI MOTOR

EN VALJ

$$d = 2r = 84 \text{ mm}$$

$$r = 42 \text{ mm}$$

$$n = 84 \text{ mm}$$

$$V_{\text{motorja}} =$$

$$V = \sigma \cdot n$$

$$V = \pi r^2 \cdot n$$

$$V = \pi \cdot 42^2 \cdot 84$$

$$V = \pi \cdot 1764 \cdot 84$$

$$V = 148176\pi \text{ mm}^3$$

$$V = 465272,64 \text{ mm}^3$$

$$V = 465,3 \text{ cm}^3$$

6-valjni motor

$$V_{\text{mot.}} = 6 \cdot 465,3 \text{ cm}^3$$

$$V_{\text{mot.}} = 2791,8 \text{ cm}^3$$