

1. Jednakokraki trapez čije su osnovice 20 cm i 8 cm i krak 10 cm rotira oko ose koja pripada njegovoj ravni a ne seče ga. Osa je paralelna većoj osnovici trapeza i na rastojanju je 2,5 cm od nje. Izračunati površinu i zapreminu nastalog tela.

$$a = 20$$

$$b = 8$$

$$c = 10$$

$$r = 2.5$$

$$P_t, V_t =$$

$$Hv_1 = a$$

$$Vv_1 = 125\pi$$

$$Hv_1 = 20$$

$$Vv_2 = 882\pi$$

$$Hv_2 = b$$

$$Mv_2 = 2\pi R H_2$$

$$Hv_2 = 8$$

$$Mv_2 = 168\pi$$

$$s = c$$

$$Mv_1 = 2\pi r H v_1$$

$$s = 10$$

$$Mv_1 = 100\pi$$

$$h^2 = c^2 - \left(\frac{a-b}{2}\right)^2$$

$$Mz_k = \pi(R+r)s$$

$$h^2 = 100 - 36$$

$$Mz_k = 130\pi$$

$$h^2 = 64$$

$$V_t = Vv_2 + 2Vz_k - Vv_1$$

$$h = 8$$

$$V_t = (882 + 2 \cdot 285.5 - 125)\pi$$

$$R = r + h$$

$$V_t = 1328\pi$$

$$R = 2.5 + 8$$

$$P_t = 2Mz_k + Mv_1 + Mv_2$$

$$R = 10.5$$

$$P_t = (2 \cdot 130 + 100 + 168)\pi$$

$$Hz_k = \frac{a-b}{2}$$

$$P_t = 528\pi$$

$$Hz_k = 6$$

$$Vz_k = 2\pi \cdot 142.75$$

$$Vz_k = 285.5\pi$$