

mol 2 / u str 177

a) KVADER ali PRAVILNA 4-STRANA PRIZMA

$$a = 8 \text{ cm}$$

$$v = 2 \text{ dm} = 20 \text{ cm}$$

b) $\sigma = 64 \text{ cm}^2$

c) $pl = 640 \text{ cm}^2$

č) $P = 768 \text{ cm}^2$

d) $V = 1,28 \text{ l}$

$$1 \text{ dm}^3 = 1 \text{ l}$$

b) $\sigma = a^2$
 $\sigma = 8^2$

$$\sigma = 64 \text{ cm}^2$$

č)

$$P = 2 \cdot \sigma + pl$$

$$P = 2 \cdot 64 + 640$$

$$P = 128 + 640$$

$$P = 768 \text{ cm}^2$$

c) $pl = \sigma \cdot v$

$$pl = 4 \cdot a \cdot v$$

$$pl = 4 \cdot 8 \cdot 20$$

$$pl = 640 \text{ cm}^2$$

d

$$V = \sigma \cdot v$$

$$V = 64 \cdot 20$$

$$V = 1280 \text{ cm}^3$$

$$V = 1,28 \text{ dm}^3$$

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mol 3

a) 3-STRANA PRIZMA ($\sigma =$ pravokotni Δ)

KATETI

$$k_1 = 5 \text{ cm}$$

$$k_2 = 12 \text{ cm}$$

$$v = 30 \text{ cm}$$

c) $\sigma = 30 \text{ cm}^2$

č) $P = 960 \text{ cm}^2$

d) $V = 900 \text{ cm}^3$

b) osnovna ploskev je pravokotni trikotnik

c) $\sigma = \frac{k_1 \cdot k_2}{2}$

$$\sigma = \frac{5 \cdot 12 \cdot 6}{2 \cdot 1}$$

$$\sigma = 30 \text{ cm}^2$$

č) $P = 2 \cdot \sigma + pl$

$$P = 2 \cdot 30 + 900$$

$$P = 960 \text{ cm}^2$$

h = hipotenuza Δ

$$h = 13 \text{ cm}$$

$$pl = 900 \text{ cm}^2$$

\leftarrow obseg Δ
 $pl = \sigma \cdot v$

$$pl = (k_1 + k_2 + h) \cdot v$$

$$pl = (5 + 12 + 13) \cdot 30$$

$$pl = 30 \cdot 30$$

$$pl = 900 \text{ cm}^2$$

$$h^2 = k_1^2 + k_2^2$$

$$h^2 = 5^2 + 12^2$$

$$h^2 = 25 + 144$$

$$h^2 = 169$$

$$h = \sqrt{169}$$

$$h = 13 \text{ cm}$$

d)

$$V = \sigma \cdot v$$

$$V = 30 \cdot 30$$

$$V = 900 \text{ cm}^3$$

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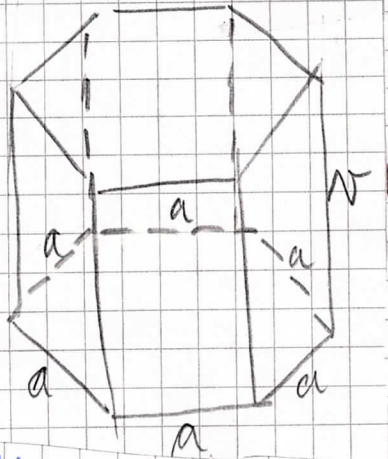
PRAVILNA 6-STRANA PRIZMA

$a = 8 \text{ cm}$

$pl = 720 \text{ cm}^2$

a) $v = 15 \text{ cm}$

b) VSOTA VSEH ROBOV



← obseg

$pl = o \cdot v$

$pl = 6 \cdot a \cdot v$

$720 = 6 \cdot 8 \cdot v$

$720 = 48 \cdot v$

$v = 720 : 48$

$v = 15 \text{ cm}$

$720 : 48 = 15$
 $240 =$

b) VSOTA ROBOV:

$12 \cdot a + 6 \cdot v =$

$= 12 \cdot 8 + 6 \cdot 15 =$

$= 96 + 90 =$

$= 186 \text{ cm}$

Skupna dolžina vseh robov meri 186 cm.

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PRAVILNA 4-STRANA PIRAMIDA

$a = 16 \text{ cm}$

$v = 15 \text{ cm}$

a) $V = \frac{o \cdot v}{3}$

$o = a^2$

$o = 16^2$

$o = 256 \text{ cm}^2$

$P = o + pl$

$P = 256 + 544$

$P = 800 \text{ cm}^2$

a) $V = 1280 \text{ cm}^3$

$V = \frac{256 \cdot 15 \cdot 5}{3 \cdot 1}$

$V = 1280 \text{ cm}^3$

b) $P = 800 \text{ cm}^2$

c) $p = 60 \text{ cm}^2$

c) $p_{\Delta ACV} = 120\sqrt{2} \text{ cm}^2$

$o = 256 \text{ cm}^2$

$v_1 = 17 \text{ cm}$

$pl = 544 \text{ cm}^2$

$pl = 4 \cdot \frac{a \cdot v_1}{2}$

$pl = \frac{4 \cdot 16 \cdot 17 \cdot 8}{2 \cdot 1}$

$pl = 544 \text{ cm}^2$

$v_1^2 = v^2 + \left(\frac{a}{2}\right)^2$

$v_1^2 = 15^2 + 8^2$

$v_1^2 = 225 + 64$

$v_1^2 = 289$

$v_1 = \sqrt{289}$

$v_1 = 17 \text{ cm}$

$\frac{32 \cdot 17}{32}$
 $\frac{224}{544}$

c) $p = 2$ pravokotni Δ s stranicami $v_1, \frac{a}{2}, v_1$

$p = \frac{v_1 \cdot \frac{a}{2}}{2}$

$p = \frac{15 \cdot 8 \cdot 4}{2 \cdot 1} = 60 \text{ cm}^2 \rightarrow$ ploščina označenega Δ

c) ΔACV stranice d, s, s enakokraki Δ

$p_{\Delta ACV} = \frac{d \cdot v}{2}$

$d = a\sqrt{2}$
 $d = 16\sqrt{2}$

$p_{\Delta ACV} = \frac{16\sqrt{2} \cdot 15 \cdot 8}{2 \cdot 1}$

$p_{\Delta ACV} = 120\sqrt{2} \text{ cm}^2$