

PIRAMIDA

④ PRAVILNA ENAKOROBNA 4-STRAVA PIRAMIDA

$v_1 = 9\sqrt{3} \text{ dm}$

$V = \frac{v \cdot v}{3}$

v_1 je v_a v enakostraničnem Δ -STRANSKA PLOŠKEV

$V = \frac{324 \cdot 12,7}{3}$

$v_1 = \frac{a\sqrt{3}}{4}$

$v = a^2$

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

$v = 18^2$

$v^2 = (9\sqrt{3})^2 - 9^2$

$V = 1371,6 \text{ dm}^3$

$\frac{3a\sqrt{3}}{4} = v_1$

$v = 324 \text{ dm}^2$

$v^2 = 81 \cdot 3 - 81$

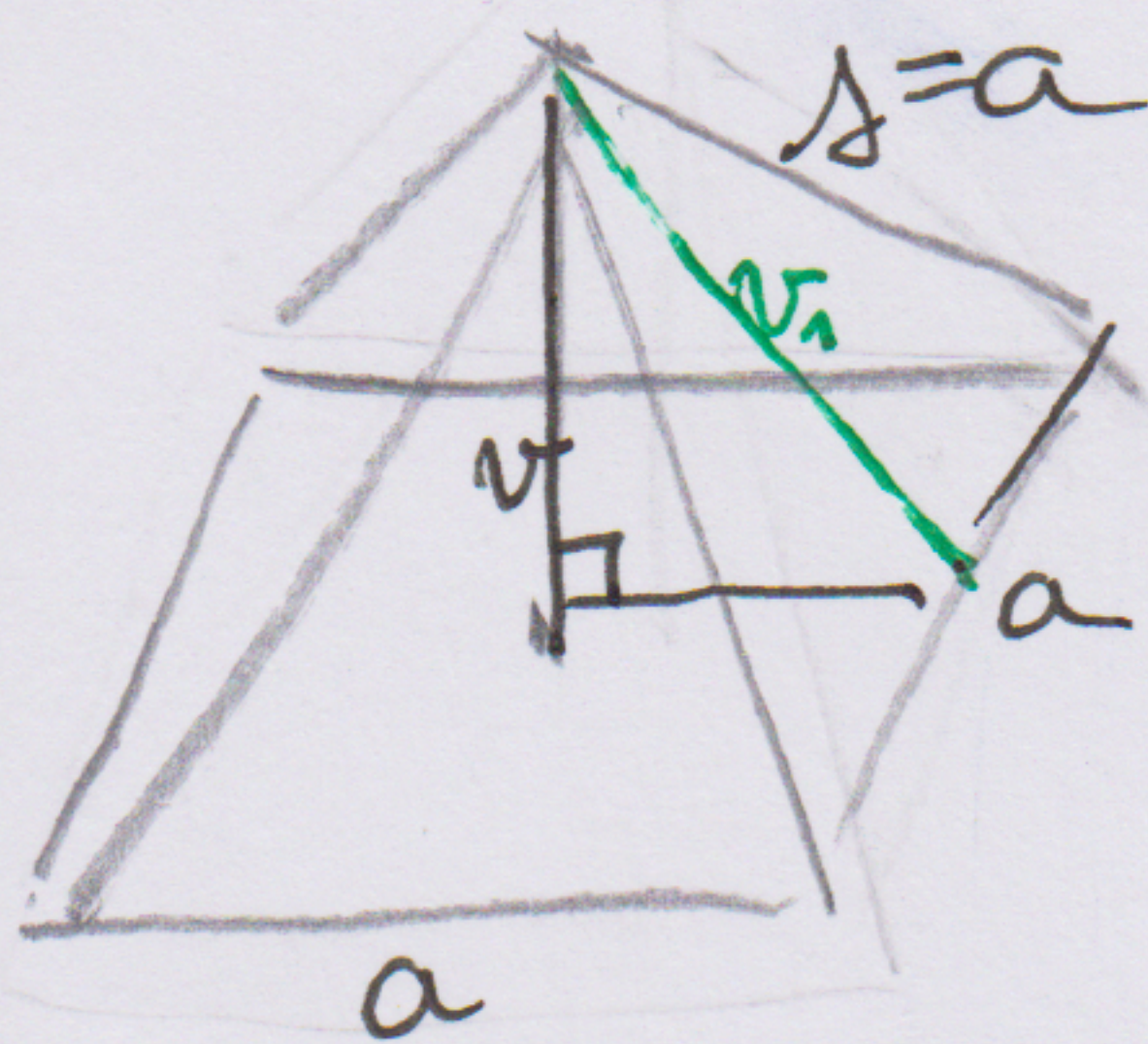
$a = \frac{2 \cdot v_1}{\sqrt{3}}$

$v^2 = 162$

$a = \frac{2 \cdot 9\sqrt{3}}{\sqrt{3}}$

$v = 12,7 \text{ dm}$

$a = 18 \text{ dm}$



⑤ ENAKOROBNA 3-STRAVA PIRAMIDA $pl = 27\sqrt{3} \text{ cm}^2$

$V = \frac{v \cdot v}{3}$

$v =$ eni stranski ploskvi $P = v + pl$

$V = \frac{3}{8\sqrt{3}} \cdot 4,9 \cdot 13$

$v = pl = 3$

$P = 9\sqrt{3} + 27\sqrt{3}$

$V = 14,7\sqrt{3} \text{ cm}^3$

$v = 27\sqrt{3} : 3$

$P = 36\sqrt{3} \text{ cm}^2$

$v = 9\sqrt{3} \text{ cm}^2$

$v_a = \frac{a\sqrt{3}}{2}$

$v^2 = a^2 - \left(\frac{2}{3}v_a\right)^2$

$v^2 = 6^2 - (2\sqrt{3})^2$

$v = \frac{a^2\sqrt{3}}{4}$

$v_a = \frac{6\sqrt{3}}{2}$

$v^2 = 36 - 12$

$\frac{a^2\sqrt{3}}{4} = v$

$v_a = 3\sqrt{3}$

$v^2 = 24$

$a = \sqrt{\frac{4v}{\sqrt{3}}}$

$\frac{2}{3}v_a = \frac{2 \cdot 3\sqrt{3}}{3}$

$v = 4,9 \text{ cm}$

$a = \sqrt{\frac{4 \cdot 9\sqrt{3}}{\sqrt{3}}} = 6$

$\frac{2}{3}v_a = 2\sqrt{3}$

⑥ TRI-STRAVA PIRAMIDA

$k_2^2 = 13^2 - 5^2$

$v = 8 \text{ dm}$

$V = \frac{v \cdot v}{3}$

$v = \frac{k_1 \cdot k_2}{2}$

$k_2^2 = 144$

V

$V = \frac{30 \cdot 8 \cdot 10}{3}$

$v = \frac{5 \cdot 12 \cdot 6}{2}$

$k_2 = 12 \text{ dm}$

$V = 80 \text{ dm}^3$

$v = 30 \text{ dm}^2$

