Rešitve: 1. ura

nal 1 PRAVILNA 3-STRANA PRIZMA → $P = 2 \cdot O + pl$

$O = 50\,cm^2$

$pl = 150\,cm^2$ (50 · 3 = 150)

$P = 250\,cm^2$

$P = 2 \cdot 50 + 150$

$P = 250\,cm^2$

nal 2 PRAVILNA 4-STRANA PIRAMIDA

$a = 4\,cm$

$v_1 = 6\,cm$

$P = 64\,cm^2$

$O = 16\,cm^2$

$pl = 48\,cm^2$

$P = O + pl$

$P = 16 + 48$

$P = 64\,cm^2$

$O = a^2$

$O = 4^2$

$O = 16\,cm^2$

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

$pl = \frac{4 \cdot 4 \cdot 6 \cdot 3}{2 \cdot 1}$

$pl = 48\,cm^2$

nal 3 PRAVILNA 6-STRANA PRIZMA

$pl = 2232\,dm^2$

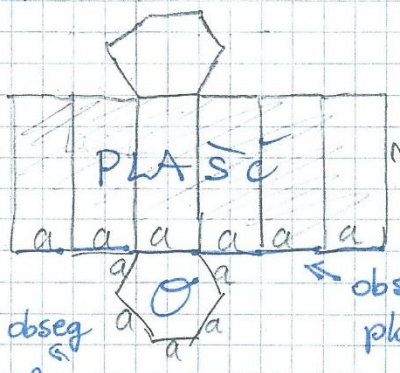
$v = 31\,dm$

$P = (432\sqrt{3} + 2232)\,dm^2$

$V = 6696\sqrt{3}\,dm^3$

$a = 12\,cm$

$O = 216\sqrt{3}\,dm^2$



obseg

obseg osnovne ploskve O

$2232 : 31 = 72$

-62

$=$

$P = 2 \cdot O + pl$

$P = 2 \cdot 216\sqrt{3} + 2232$

$P = (432\sqrt{3} + 2232)\,dm^2$

$P = 72(6\sqrt{3} + 31)\,dm^2$

$pl = o \cdot v$

$2232 = o \cdot 31 \mid : 31$

$o = 2232 : 31$

$o = 72\,dm$

$O = 6 \cdot \frac{a^2\sqrt{3}}{4}$

$O = \frac{6 \cdot 12^2\sqrt{3}}{4}$

$O = \frac{6 \cdot 144 \cdot \sqrt{3} \cdot 36}{4 \cdot 1}$

$O = 216\sqrt{3}\,dm^2$

$O = 6a$

$72 = 6 \cdot a$

$a = 72 : 6$

$a = 12\,cm$

$V = O \cdot v$

$V = 216\sqrt{3} \cdot 31$

$V = 6696\sqrt{3}$

$216 \cdot 31$

648

216

6696

1. ura

mal 4

3 - STRANA PRIZMA O = pravokotni trikotnik

$v = 6\,cm$

$p_1 = 48\,cm^2$
$p_2 = 90\,cm^2$
$p_3 = 102\,cm^2$
} PLOŠČINE STRANSKIH PLOSKEV

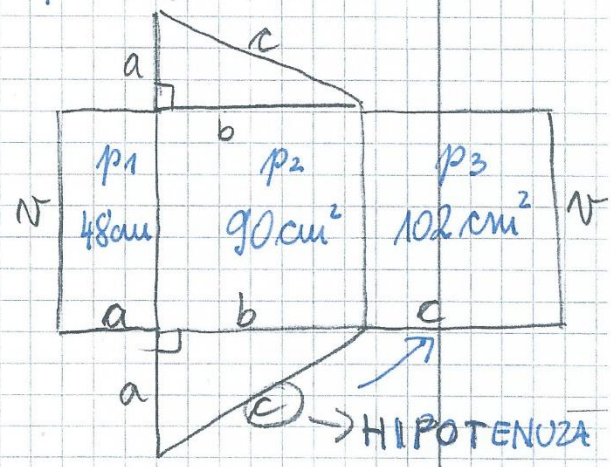
$P = 360\,cm^2$

$V = 360\,cm^3$

$a = 8\,cm$

$b = 15\,cm$

$c = 17\,cm$



$p_1 = a \cdot v$ | $p_2 = b \cdot v$ | $p_3 = c \cdot v$

$48 = a \cdot 6$ | $90 = b \cdot 6$ | $102 = c \cdot 6$

$a = 8\,cm$ | $b = 15\,cm$ | $c = 17\,cm$

$P = 2 \cdot O + pl$

$P = 2 \cdot 60 + 240$

$P = 120 + 240$

$P = 360\,cm^2$

$O = \frac{a \cdot b}{2}$

$O = \frac{8 \cdot 15 \cdot 4}{2 \cdot 1}$

$O = 60\,cm^2$

ploščina pravokotnega trikotnika

$\frac{kateta_1 \cdot kateta_2}{2}$

$pl = p_1 + p_2 + p_3$

$pl = 48 + 90 + 102$

$pl = 240\,cm^2$

$V = O \cdot v$

$V = 60 \cdot 6$

$V = 360\,cm^3$