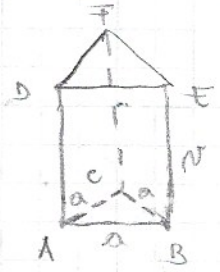
147/3 pravilna 3-strana prizma

$a = 6\,cm$

$v = 20\,cm$



$d = 2 \cdot 3a + 3 \cdot v$

$d = 6 \cdot 6 + 3 \cdot 20$

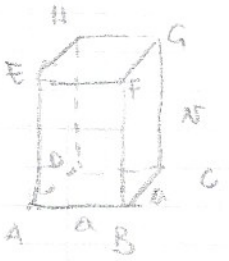
$d = 36 + 60$

$d = 96\,cm$

pravilna 4-strana prizma

$a = 6\,cm$

$v = 20\,cm$



$d = 2 \cdot 4a + 4 \cdot v$

$d = 8 \cdot 6 + 4 \cdot 20$

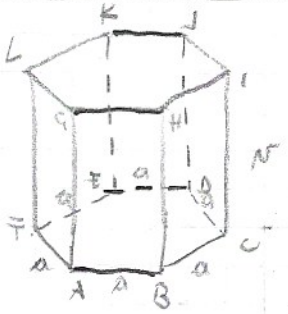
$d = 48 + 80$

$d = 128\,cm$

pravilna 6-strana prizma

$a = 6\,cm$

$v = 20\,cm$



$d = 2 \cdot 6a + 6 \cdot v$

$d = 2 \cdot 6 \cdot 6 + 6 \cdot 20$

$d = 72 + 120$

$d = 192\,cm$

148/13 Prizma

$O = 25\,cm^2$

$v = 12\,cm$

$V = ?$

$P = ?$

a) $V = O \cdot v$

$V = 25 \cdot 12$

$V = 300\,cm^2$

b) P ne moremo izračunati, ker ne moremo izračunati pl

148/14 Prizma

$O = 40\,cm^2$

$pl = 3 \cdot 40 = 120\,cm^2$

$P = ?$

$P = 2 \cdot O + pl$

$P = 2 \cdot 40 +$ O

$P = 80 + 120$

$P = 200\,cm^2$

178/29* pravilna 3-strana pr.

$a = 2x$ cm

$P = ?$

$P = 2 \cdot W + pl$

$P = 2 \cdot \frac{a^2\sqrt{3}}{4} + 3 \cdot a \cdot a$

$P = 2 \cdot \frac{(2x)^2\sqrt{3}}{4} + 3 \cdot 2x \cdot 2x$

$P = 2 \cdot \frac{4x^2\sqrt{3} \cdot 1}{4 \cdot 1} + 12x^2$

$P = 2\sqrt{3}x^2 + 12x^2$

$P = 2x^2(\sqrt{3} + 6)$ cm^2

$V = W \cdot v$

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

$V = \frac{(2x)^2\sqrt{3}}{4} \cdot 2x$

$V = \frac{4x^2\sqrt{3} \cdot 1}{4 \cdot 1} \cdot 2x$

$V = x^2\sqrt{3} \cdot 2x$

$V = 2x^3\sqrt{3}$

$V = 2\sqrt{3}x^3$ cm^3

pravilna 4-strana pr.

$a = 2x$ cm

$P = ?$

$P = 2 \cdot W + pl$

$P = 2 \cdot a^2 + 4a \cdot a$

$P = 2 \cdot (2x)^2 + 4 \cdot 2x \cdot 2x$

$P = 2 \cdot 4x^2 + 16x^2$

$P = 8x^2 + 16x^2$

$P = 24x^2$ cm^2

$V = W \cdot v$

$V = a^2 \cdot a$

$V = a^3$

$V = (2x)^3$

$V = 8x^3$ cm^3

pravilna 6-strana pr.

$a = 2x$

$P = ?$

$P = 2 \cdot W + pl$

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

$P = 12 \cdot \frac{(2x)^2\sqrt{3}}{4} + 6a^2$

$P = 12 \cdot \frac{4x^2\sqrt{3} \cdot 1}{4 \cdot 1} + 6(2x)^2$

$P = 12x^2\sqrt{3} + 6 \cdot 4x^2$

$P = 12x^2\sqrt{3} + 24x^2$

$P = 12x^2(\sqrt{3} + 2)$ cm^2

$V = W \cdot v$

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

$V = 6 \cdot \frac{(2x)^2\sqrt{3}}{4} \cdot 2x$

$V = 6 \cdot \frac{4x^2\sqrt{3} \cdot 1}{4 \cdot 1} \cdot 2x$

$V = 6x^2\sqrt{3} \cdot 2x$

$V = 12\sqrt{3}x^3$ cm^2