

428 v) → domácí zadatak

$2r = 24 \text{ cm}$

$M = r \cdot s \cdot \pi$

$s = 13 \text{ cm}$

$r = 12 \text{ cm}$

$P = ? \quad V = ?$

$M = 12 \cdot 13 \cdot \pi$

$P = B + M$

$M = 156 \text{ cm}^2$

$B = r^2 \pi$

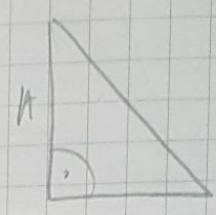
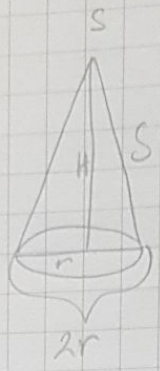
$B = 12^2 \pi = 144 \pi \text{ cm}^2$

$P = 144 \pi + 156 \pi = 200 \pi \text{ cm}^2$

$V = \frac{1}{3} \cdot B \cdot H$

$V = \frac{1}{3} \cdot 144 \pi \cdot 5$

$V = 48 \cdot 5 = 240 \pi \text{ cm}^3$



$H^2 = s^2 - r^2$

$H^2 = 13^2 - 12^2$

$H^2 = 169 - 144$

$H^2 = 25 = 5 \text{ cm}$

428 a) $V = ?$

$B = r^2 \pi$

$H = 6 \text{ cm}$

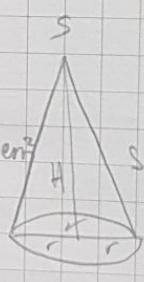
$B = \sqrt{13}^2 \pi = 13 \pi \text{ cm}^2$

$s = 7 \text{ cm}$

$V = \frac{1}{3} \cdot 13 \pi \cdot 6$

$V = \frac{1}{3} \cdot B \cdot H$

$V = 26 \pi \text{ cm}^3$



$r^2 = s^2 - H^2$

$r^2 = 49 - 36$

$r^2 = 13 = \sqrt{13}$

429.

$r : H = 3 : 4 = k$

$r = 3k$

$V = ?$

$H = 4k$

$M = 60 \pi \text{ cm}^2$

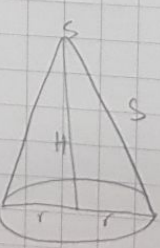
$B = r^2 \pi$

$M = r \cdot s \cdot \pi / : \pi$

$B = 6^2 \pi$

$60 = r \cdot s$

$B = 36 \pi \text{ cm}^2$



$s^2 = H^2 + r^2$

$s^2 = (4k)^2 + (3k)^2$

$s^2 = 16k^2 + 9k^2$

$s^2 = 25k^2$

$s = 5k$

$60 = 3k \cdot 5k$

$V = \frac{1}{3} \cdot B \cdot H$

$H = 4 \cdot 2$

$H = 8 \text{ cm}$

$60 = 15k^2 / : 15$

$V = \frac{1}{3} \cdot 36 \pi \cdot 8$

$4 = k^2$

$V = 96 \pi \text{ cm}^3$

$k = 2$