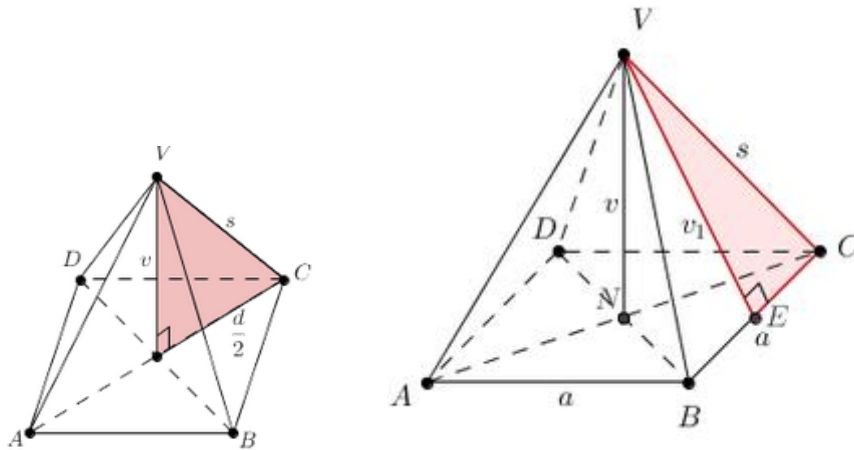


PITAGOROV IZREK V PRAVLNI 4-STRANI PIRAMIDI vaje 2. del

3. naloga

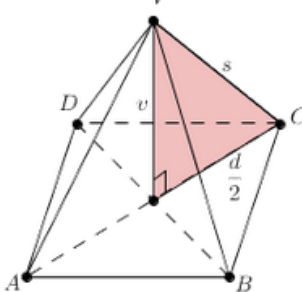
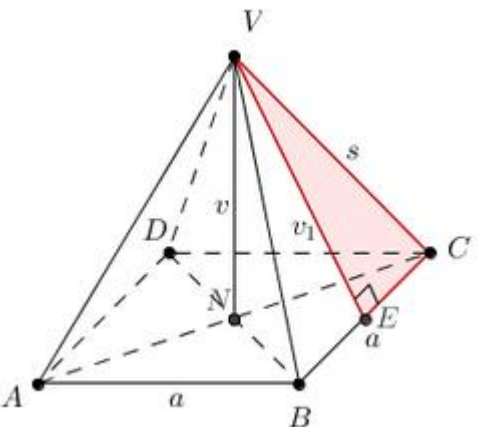
Zapiši Pitagorov izrek za obarvan trikotnik.



4. naloga

Osnovna ploskev pravilne 4-strane piramide meri  $144 \text{ cm}^2$ , višina piramide pa  $35 \text{ cm}$ . Izračunaj njeno površino.

Rešitve  
3. naloga

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

4. naloga

$$\begin{aligned} \sigma &= 144 \text{ cm}^2 \\ N &= 35 \text{ cm} \\ P &= ? \end{aligned}$$



$$\begin{aligned} \sigma &= a^2 \\ 144 &= a^2 \\ a^2 &= 144 \\ a &= \sqrt{144} \\ a &= 12 \text{ cm} \end{aligned}$$

$$\begin{aligned} N_1^2 &= \left(\frac{a}{2}\right)^2 + N^2 \\ N_1^2 &= \left(\frac{12}{2}\right)^2 + 35^2 \\ N_1^2 &= 36 + 1225 \\ N_1 &= \sqrt{1261} \\ N_1 &= 35,5 \text{ cm} \end{aligned}$$

$$\begin{aligned} P &= \sigma + pl \\ P &= a^2 + 4 \cdot \frac{a \cdot N_1}{2} \\ P &= 12^2 + 4 \cdot \frac{12 \cdot 35,5}{2} \\ P &= 144 + 852 \\ P &= 996 \text{ cm}^2 \\ P &= 9,96 \text{ dm}^2 \end{aligned}$$