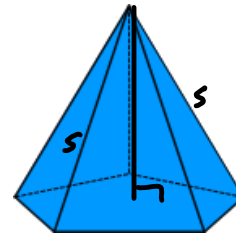
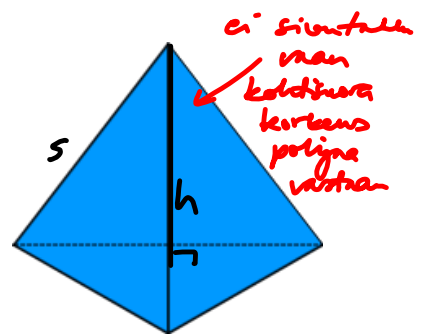
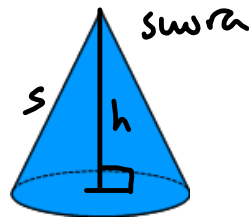


# KARTIO

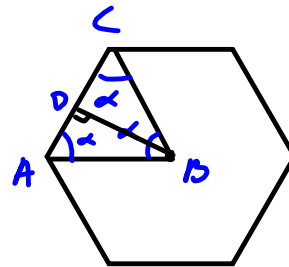
- pohja  $A_p$
- sivupinta  $s$
- korkeus  $h$
- pyramidi
- ympyräkartio
- akseli



esim Säännöllisen kuusisivuisen pyramidin korkeus on 8 ja pohjan suurin sivun pituus on 10.

laske pyramidin

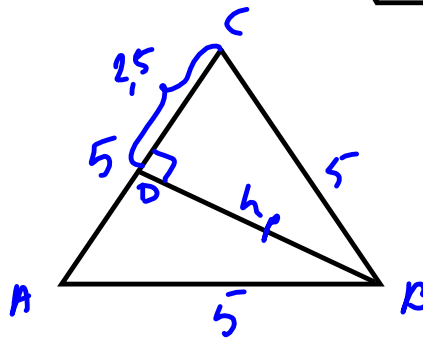
- a) tilavuus
- b) sivupinnan ala



$$h_p = ?$$

$$h^2 + 2,5^2 = 5^2$$

$$h = \pm 2,5\sqrt{3}$$



$$A_p = 6 \cdot A_k = \frac{3}{6} \cdot \frac{5 \cdot 2,5\sqrt{3}}{2} = 37,5\sqrt{3}$$

$$h = 8$$

$$\underline{V} = \frac{A_p \cdot h}{3} = \frac{37,5\sqrt{3} \cdot 8}{3} = \underline{100\sqrt{3}}$$