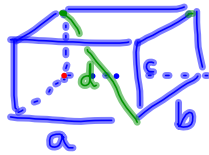


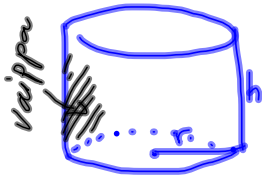
AVARUUSGEOMETRIAA



tilavuus $V = a \cdot b \cdot c$

$d = \sqrt{a^2 + b^2 + c^2}$

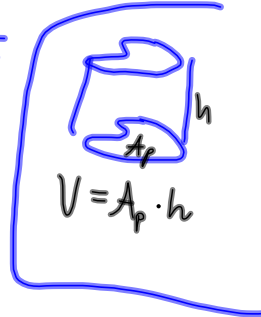
ESIM 1 + 2 s. 128 + 129



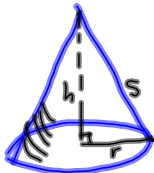
suora ympyrälieiö

$V = \pi r^2 \cdot h$

vaipan ala $A_V = 2\pi r \cdot h$



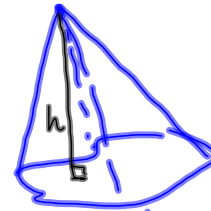
sämiö



suora ympyräkartiö

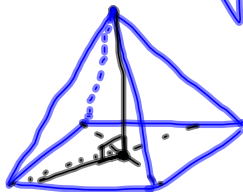
$V = \frac{\pi r^2 \cdot h}{3}$

vaipan ala $A_V = \pi \cdot r \cdot s$

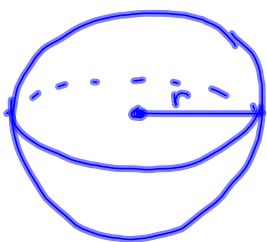


kartiö

$V = \frac{A_p \cdot h}{3}$



$V = \frac{A_p \cdot h}{3}$ ESIM 2 s. 135



$V = \frac{4}{3} \pi r^3$

ESIM 1 s. 137

$A = 4 \pi r^2$

s. 130



s. 132-133



s. 136



s. 138



yleisgeometriaa

s. 139

(tehtäväsarjoja s. 141 →)