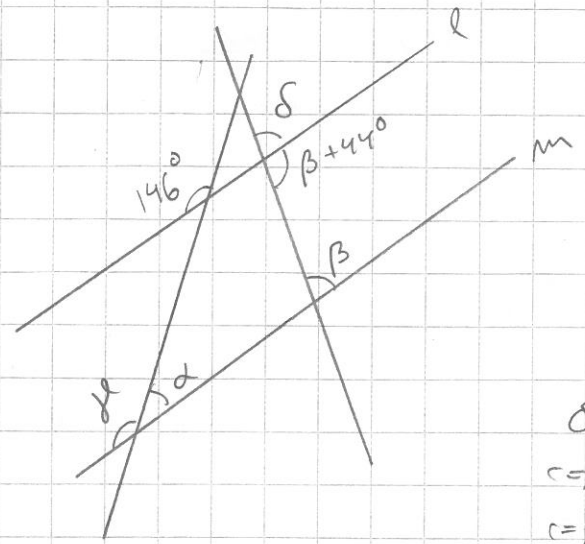
1.4 a)



$\gamma = 146°$ (samankohtaiset kulmat, m \| l)

$\alpha = 180° - \gamma = 180° - 146° = \underline{34°}$

$\delta = \beta$ ( )

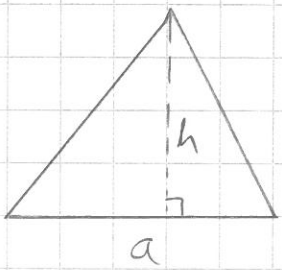
$\delta + (\beta + 44°) = 180°$

$\Leftrightarrow \beta + (\beta + 44°) = 180°$

$\Leftrightarrow 2\beta = 136° \quad | : 2$

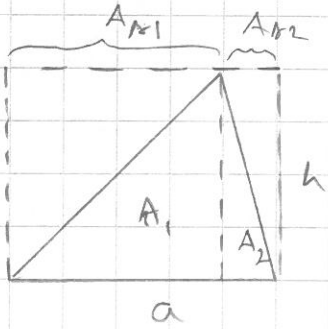
$\Leftrightarrow \underline{\beta = 68°}$

2. Monikulmioita



$\boxed{A = \frac{1}{2}ah}$ KOLMION PINTA-ALA

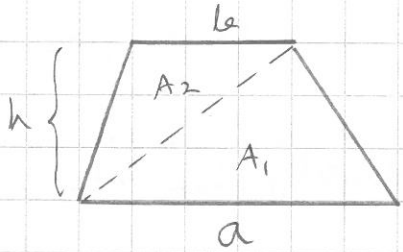
Perustelu:



$A = A_1 + A_2 = \frac{1}{2}A_{M_1} + \frac{1}{2}A_{M_2}$

$= \frac{1}{2}(A_{M_1} + A_{M_2}) = \frac{1}{2}A_M$

$= \frac{1}{2}ah$ ⌋



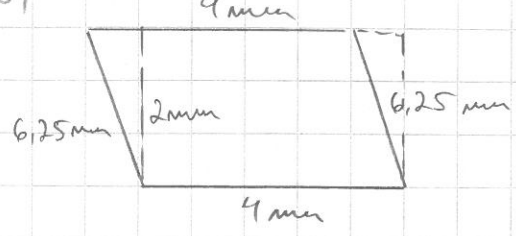
$A = A_1 + A_2 = \frac{1}{2}ah + \frac{1}{2}bh = (\frac{1}{2}a + \frac{1}{2}b)h$

$= \frac{a+b}{2}h$

$\Rightarrow \boxed{A = \frac{a+b}{2}h}$ PUOLISUUNNIKKAAN PINTA-ALA

2.2 a) $A = 4 \cdot 2 = \underline{8\ (cm^2)}$

b)



$A = 4 \cdot 2 = \underline{8\ (mm^2)}$

c) $A = 3 \cdot 3 + 2 \cdot 3 = 9 + 6 = \underline{15\ (m^2)}$

d) $A = 5 \cdot 1 + \frac{2+4}{2} \cdot 2 = 5 + 6 = \underline{11\ (cm^2)}$