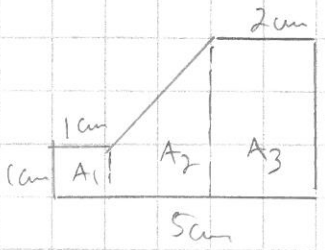
d)



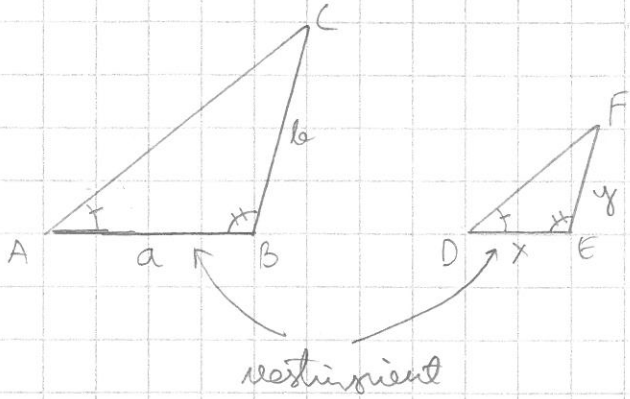
$A = A_1 + A_2 + A_3$

$= (1\,cm)^2 + \frac{1\,cm + 3\,cm}{2} \cdot 2\,cm + 2\,cm \cdot 3\,cm$

$= 11\,cm^2$

3. Mittakaava

Kolmioiden yhdenmuotoisuus:



1° ∢A = ∢D

2° ∢B = ∢E

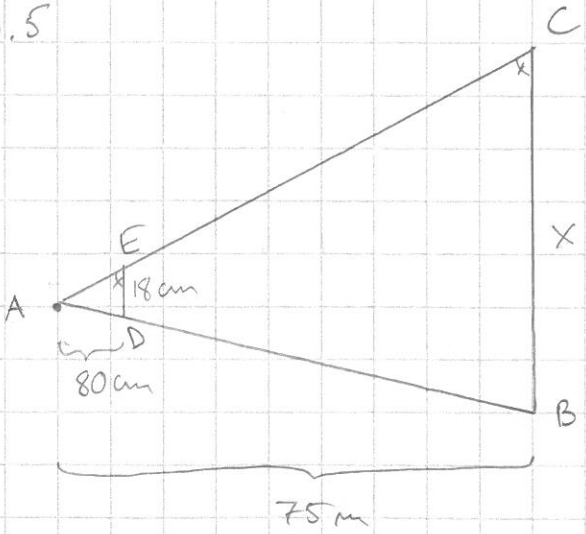
⇒ △ABC ~ △DEF (kk)

yhdenmuotoinen — kulma kulma

Verranto: $\frac{a}{x} = \frac{b}{y}$ $\quad | \cdot \frac{x}{b} \quad (=) \quad \frac{a}{b} = \frac{x}{y}$

$\frac{a}{x} = k$ MITTAKAAVA = VASTINJANOJEN SUHDE

3.5



△ABC ~ △ADE (kk)

1° ∢C = ∢E (samankohtaiset kulmat AC ∥ DE)

2° ∢A yhteinen

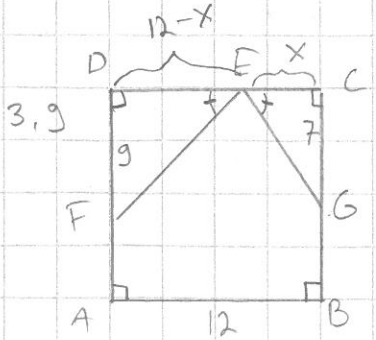
$\frac{x}{18\,cm} = \frac{75\,m}{80\,cm} \quad | \cdot 18\,cm$

$(=) \quad x = \frac{75\,m}{80\,\cancel{cm}} \cdot 18\,\cancel{cm} = 16{,}875\,m$

$\approx \underline{17\,m}$

TAI: $\frac{x}{75\,m} = \frac{18\,cm}{80\,cm}$

3.9



△DEF ~ △CEG (kk)

1° ∢DEF = ∢GEC

2° ∢D = ∢C = 90°