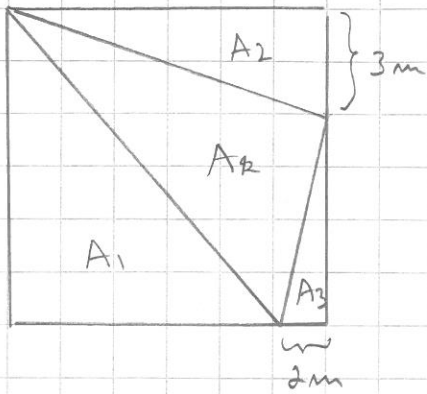


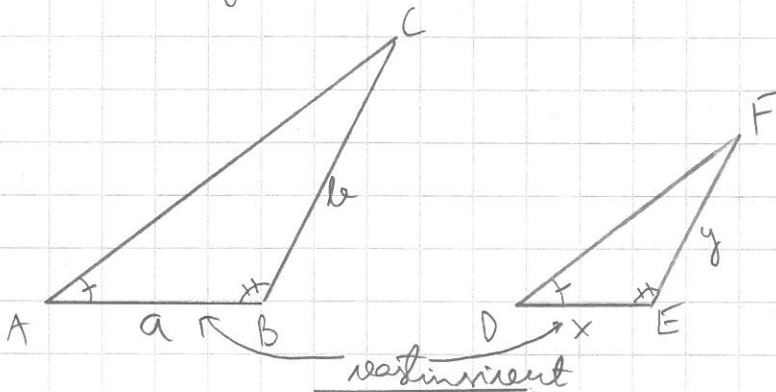
2.13



$$\begin{aligned}
 A_2 &= A_m - A_1 - A_2 - A_3 \\
 &= 9\text{m} \cdot 9\text{m} - \frac{1}{2} \cdot 7\text{m} \cdot 9\text{m} - \frac{1}{2} \cdot 3\text{m} \cdot 9\text{m} \\
 &\quad - \frac{1}{2} \cdot 2\text{m} \cdot 6\text{m} \\
 &= \underline{30\text{m}^2}
 \end{aligned}$$

### 3. Mittokava

Kolmioiden yhdenmuotoisuus:



$$1^\circ \sphericalangle A = \sphericalangle D$$

$$2^\circ \sphericalangle B = \sphericalangle E$$

$\Rightarrow \Delta ABC \sim \Delta DEF$  (ks)   
 ↑   
 yhdenmuotoisuus   
 ↑   
 kulma kulma

Verranto:

$$\frac{a}{x} = \frac{h}{y}$$

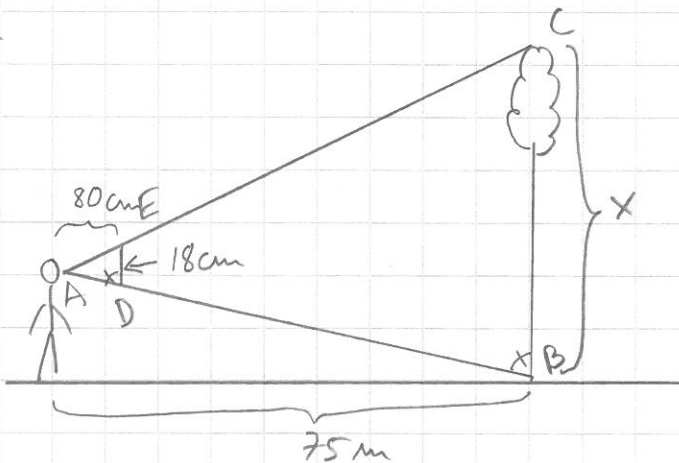
$$| \cdot \frac{x}{h} \Leftrightarrow$$

$$\frac{a}{h} = \frac{x}{y}$$

$$\underline{k = \frac{a}{h}}$$

mittokava = vastinkäntäsuhte

3.5



$$\Delta ABC \sim \Delta ADE \text{ (ks)}$$

$$1^\circ \sphericalangle A \text{ on yhteinen}$$

$$2^\circ \sphericalangle B = \sphericalangle D \text{ (samankaltaiset}$$

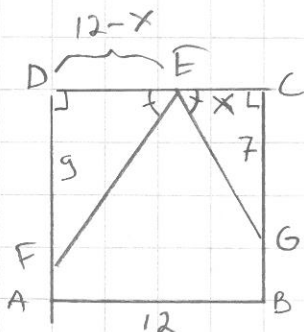
kulmat,  $DE \parallel BC$ )

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

$$\Leftrightarrow x \cdot 80\text{cm} = 75\text{m} \cdot 18\text{cm} \quad | :80\text{cm}$$

$$\Leftrightarrow x = \frac{75\text{m} \cdot 18\text{cm}}{80\text{cm}} = 16,875\text{m} \approx \underline{17\text{m}}$$

3.9



$$\Delta DEF \sim \Delta CEG \text{ (ks)} \quad 1^\circ \sphericalangle D = \sphericalangle C = 90^\circ$$

$$2^\circ \sphericalangle DEF = \sphericalangle GEC$$

$$\frac{x}{7} = \frac{12-x}{9} \quad | \cdot 63$$