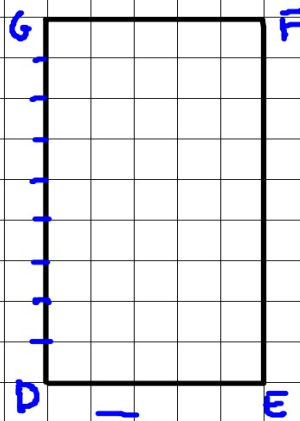
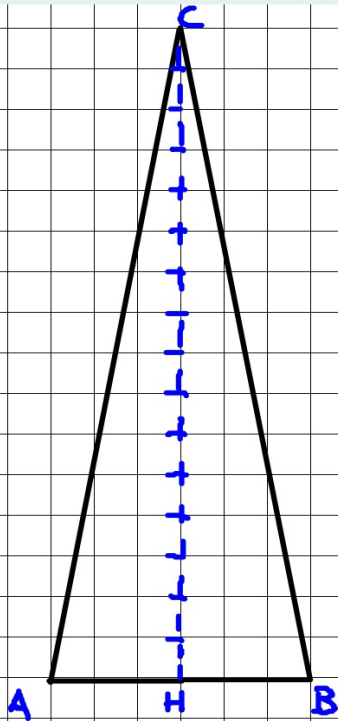


Un triangolo isoscele ha un lato obliquo lungo 41 cm e il perimetro di 100 cm. Calcola la misura della base di un rettangolo equivalente al triangolo e avente l'altezza congruente ai $\frac{9}{16}$ dell'altezza relativa alla base del triangolo dato. [16 cm]



$$\overline{BC} = 41 \text{ cm}$$

$$2P_{(ABC)} = 100 \text{ cm}$$

$$A_{(ABC)} = A_{(DEFG)}$$

$$\overline{EF} = \frac{9}{16} \cdot \overline{CH}$$

$$\overline{DE} = ?$$

$$A_{(DEFG)}$$

$$A_{(ABC)}$$

FORMULA DI ERONE

$$\frac{GF}{CH}$$

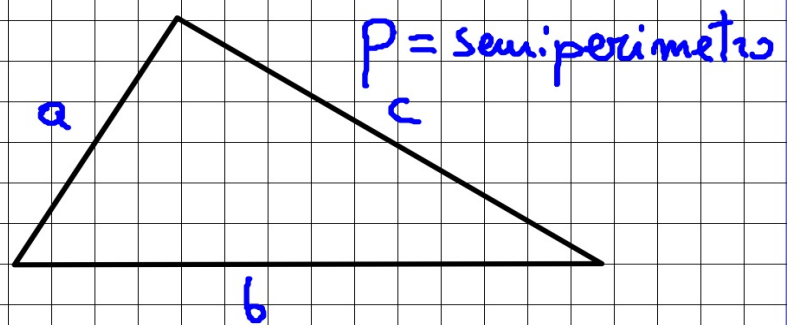
$$A_{(ABC)}$$

$$\overline{AB}$$

$$2P_{(ABC)}$$

$$\overline{BC}$$

FORMULA DI ERONE



$$A = \sqrt{p \times (p - a) \times (p - b) \times (p - c)}$$

$$\overline{AB} = \text{cm} (100 - 41 \cdot 2) = \text{cm } 18$$

$$A_{(ABC)} = \sqrt{\frac{100}{2} \cdot \left(\frac{100}{2} - 41\right) \cdot \left(\frac{100}{2} - 41\right) \cdot \left(\frac{100}{2} - 18\right)} =$$

$$= \text{cm}^2 \sqrt{50 \cdot 9 \cdot 9 \cdot 32} = \text{cm}^2$$

$$= \text{cm}^2 \sqrt{5^2 \cdot 2 \cdot 3^2 \cdot 3^2 \cdot 2^5} = \text{cm}^2 \sqrt{2^6 \cdot 3^4 \cdot 5^2} =$$

$$= \text{cm}^2 2^3 \cdot 3^2 \cdot 5 = \text{cm}^2 360$$

$$\bar{C}_H = \text{cm} \left(\frac{360 \cdot 2}{18} \right) = \text{cm } 40$$

$$\bar{E}_F = \text{cm} \left(5 \cdot 40 \cdot \frac{9}{16} \right) = \text{cm } 22,5$$

$$\bar{D}_E = \text{cm} \left(\frac{360}{22,5} \right) = \text{cm } 16$$