

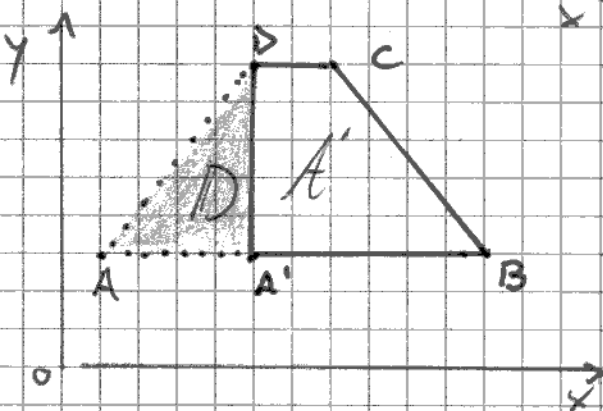
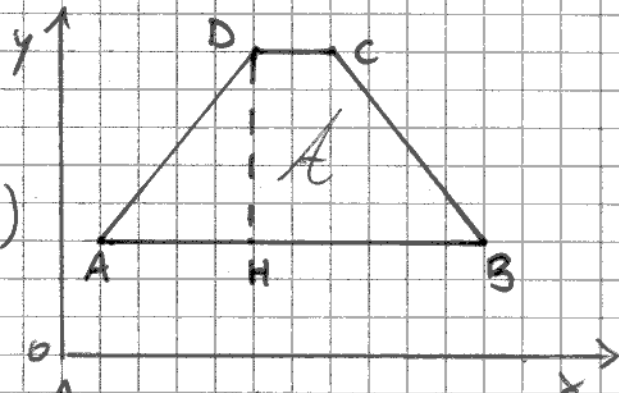
Venerdì 20 marzo 2020

Esercizio 341 pag. 59

$AB = 10u$ $B(11,3)$ $A'(5,3)$

$CD = 2u$ $A = ?$

$DH = 5u$ A_{ABCD}



$$A_{ABCD} = \frac{(AB + CD) \cdot DH}{2} = \frac{(10 + 2) \cdot 5}{2} = \frac{60 \cdot 5}{2} = 6 \cdot 5 = 30 u^2$$

$D = A_{ABCD} - A_{A'B'CD} = ?$

$D = A_{AA'D} = \frac{AA' \cdot A'D}{2} = \frac{4 \cdot 5}{2} = \frac{20}{2} = 10 u^2$

Es 348

$b_1 = 25m$

$b_2 = 15m$

$h = \frac{2}{3} b_2$

$A = ?$

$b_2 \left(\frac{2}{3}\right) = 15m \rightarrow VP\left(\frac{1}{3}\right) = 15 : 3 = 5m$

$h\left(\frac{2}{3}\right) = 5 \times 2 = 10m$

$A = \frac{(b_1 + b_2) \cdot h}{2} = \frac{(25 + 15) \cdot 10}{2} = \frac{40 \cdot 10}{2} = 200 m^2$

Es 352

$b_1 = 6,7 cm$

$b_2 = 5,3 cm$

$h = \frac{5}{4} (b_1 + b_2)$

Es 353

$b_1 = 2b_2$ $h = 25 cm$

$A = 375 cm^2$ $b_1 = ?$; $b_2 = ?$

$A = ?$

$b_1 + b_2 \left(\frac{4}{3}\right) = 6,7 + 5,3 = 12 cm \rightarrow VP\left(\frac{1}{4}\right) = 3 cm$

$h\left(\frac{5}{4}\right) = 3 \times 5 = 15 cm$

$A = \frac{(b_1 + b_2) \cdot h}{2} = \frac{12 \cdot 15}{2} = 6 \cdot 15 = 90 cm^2$

$b_1 + b_2 = \frac{2A}{h} = \frac{2 \cdot 375}{25} = \frac{750}{25} = 30 cm$

$b_1 + b_2 = 2b_2 + b_2 = 3b_2 \rightarrow b_2 = \frac{30}{3} = 10 cm$

$b_1 = 20 cm$