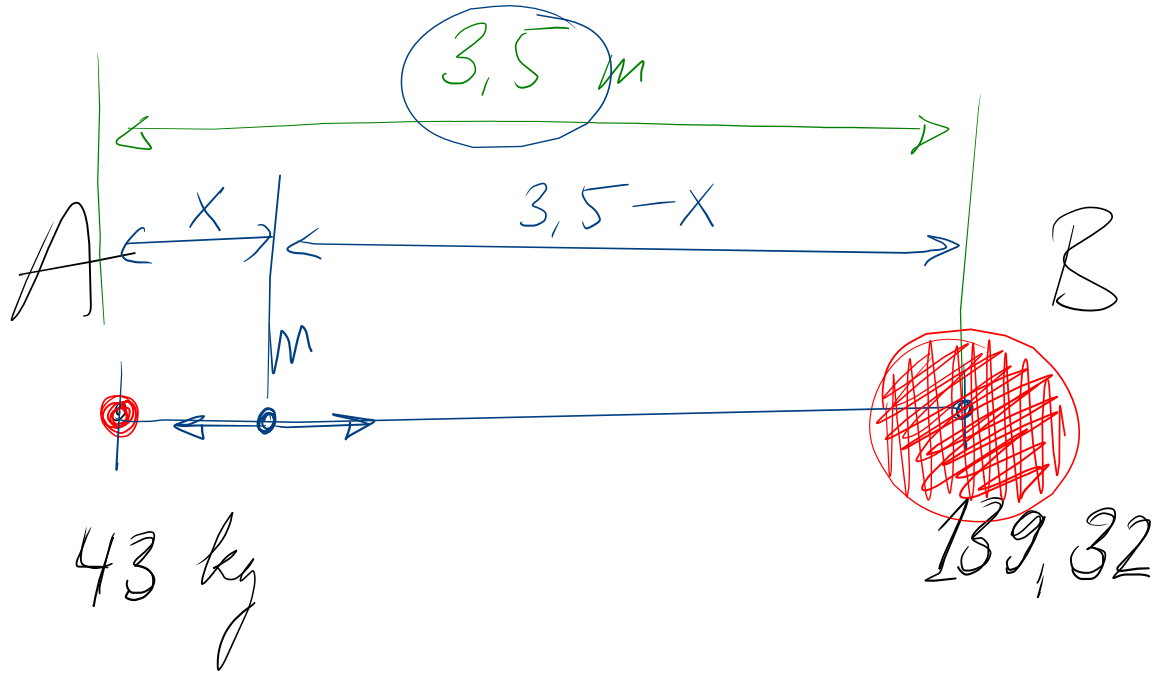
① Dessiner $\boxed{ax + by + c = 0}$

a, b, c des nombres fixés

Exemple : $8x - 4y - 1 = 0$

P8



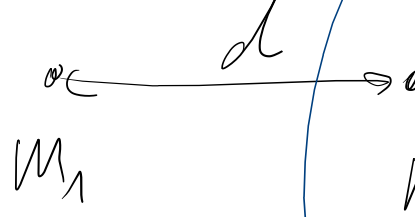
$$\frac{43 \cdot m}{x^2} = \frac{139{,}32\ m}{(3{,}5-x)^2}$$

$\div m$

$$\frac{43}{x^2} = \frac{139{,}32}{(3{,}5-x)^2}$$

$6{,}67 \cdot 10^{-11}$

$$G \cdot \frac{m_1 m_2}{d^2} = F$$



$$43(3{,}5-x)^2 = 139{,}32x^2$$

$$43(3{,}5-x)^2 = 139{,}32 \cdot x^2 \qquad \div 43$$

$$43(12{,}25 - 7x + x^2) = 139{,}32x^2$$

$$(A-B)^2 = A^2 - 2AB + B^2$$

$$(3{,}5-x)^2 = \frac{139{,}32}{43}\,x^2$$

$$3{,}5^2 - \overbrace{2 \cdot 3{,}5 \cdot x}^{7x} + x^2 = 3{,}24\,x^2$$

$$3{,}24x^2 - x^2 + 7x - 12{,}25 = 0 \quad \Leftrightarrow \quad 2{,}24x^2 + 7x - 12{,}25 = 0$$

$$ax^2+bx+c=0$$

$$\Delta = b^2-4ac$$

$$x_1 = \frac{-b+\sqrt{\Delta}}{2\cdot a}$$

$$x_2 = \frac{-b-\sqrt{\Delta}}{2\cdot a}$$

t taux en % Capital : C

$t - 0{,}5$

$$\frac{t \cdot C}{100} - \frac{(t-0{,}5) \cdot C}{100} = 704$$

$$tC - (t-0{,}5)C = 704\,000$$

$$(c+3)^2 = (c+3)(c+3)$$

$$= c^2 + 6c + 9$$

$$(A+B)^2 = A^2 + 2AB + B^2$$

$$\frac{A}{B} = \frac{C}{D} \quad \cdot D$$

$$\frac{AD}{B} = C \quad \cdot B$$

$$AD = BC$$

$$\frac{1}{8} \cdot 8$$