

$$35) \quad x^3 - 7x^2 + 15x - 9 = 0 \quad x = 1$$

$$1 - 7 + 15 - 9 = 0$$

$$0 = 0$$

$$x^3 - 7x^2 + 15x - 9$$

$$\begin{array}{c|ccc|c} & 1 & -7 & 15 & -9 \\ 1 & & 1 & -6 & 9 \\ \hline & 1 & -6 & 9 & 0 \end{array}$$

$$(x-1)(x^2-6x+9) = 0$$

$$(x-1)(x-3)^2 = 0$$

$$\Downarrow \quad \Downarrow$$

$$x=1 \vee x=3 \text{ doppia}$$

$$S = \{1; 3(\text{doppia})\}$$

$$X^3 + 2X^2 - 5X - 6 = 0$$

-1	1	2	-5	-6
	-1	-1		+6
	1	1	-6	0

$(X+1)(X^2+X-6)$

$$X^2 + X - 6$$

$$X^2 + 3X - 2X - 6 \quad x(x-2) + 3(x-2) \Rightarrow (x+3)(x-2)$$

$$(X+1)(X+3)(X-2)$$

$$X = -1 \quad X = -3 \quad X = 2$$

$$S = \{-1; -3; 2\}$$

$$10X^3 - 7X^2 - 14X + 3 = 0$$

Sostituisco a X -1

$$-10 - 7 + 14 + 3 = 0$$

$$0 = 0$$

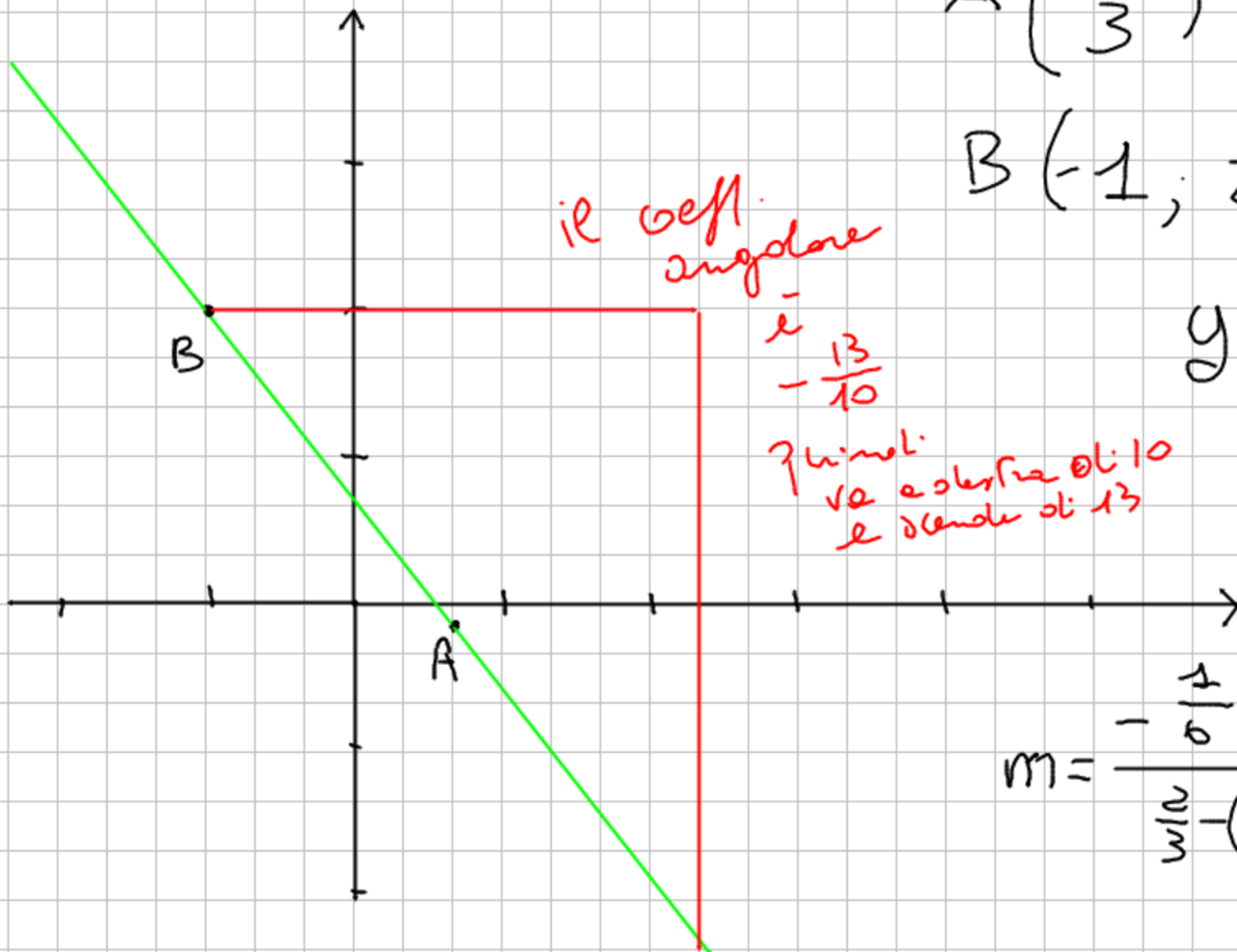
10	-7	-14	3
-1	-10	+17	-3
10	-17	3	0

$$(X-1)(10X^2 - 17X + 3) = 0 \Rightarrow X = 1 \quad \vee \quad 10X^2 - 17X + 3$$

$$\Delta = (-17)^2 - 4(30) = 289 - 120 = 169 \quad \leftarrow$$

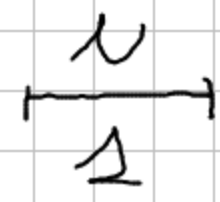
$$X_{1,2} = \frac{17 \pm 13}{20} = \begin{cases} + \frac{30}{20} & \frac{3}{2} \\ - \frac{4}{20} & \frac{1}{5} \end{cases}$$

$$S = \left\{ \frac{1}{5}; 1; \frac{3}{2} \right\}$$



$$A \left( \frac{2}{3}; -\frac{2}{6} \right)$$

$$B (-1; 2)$$



$$y = mx + q$$

$$m = \frac{\Delta y}{\Delta x}$$

$$m = \frac{-\frac{2}{3} - 2}{\frac{2}{3} - (-1)} = \frac{-\frac{13}{3}}{\frac{5}{3}}$$

$$m = -\frac{13}{3} \cdot \frac{3}{5} = -\frac{13}{5}$$

$$y = -\frac{13}{10}x + q$$

$$2 = -\frac{13}{10}(-1) + q$$

$$2 = +\frac{13}{10} + q$$

$$q = 2 - \frac{13}{10} = \frac{7}{10}$$

$$y = -\frac{13}{10}x + \frac{7}{10}$$