

3.2.12

$$d_1: 2x - 3y - 5 = 0$$

$$d_2: 6x - 4y + 7 = 0$$

$$\frac{2x - 3y - 5}{\underbrace{\sqrt{4+9}}_{\sqrt{13}}} = \pm \frac{6x - 4y + 7}{\underbrace{\sqrt{36+16}}_{\sqrt{52}}} \quad | \cdot 2\sqrt{13}$$
$$\cdot \quad \underbrace{\sqrt{52}}_{= \sqrt{4 \cdot 13}} = 2\sqrt{13}$$

$$\Leftrightarrow 2(2x - 3y - 5) = \pm (6x - 4y + 7)$$

$$\Leftrightarrow 4x - 6y - 10 = \begin{cases} 6x - 4y + 7 & \Leftrightarrow 2x + 2y + 17 = 0 & (b_1) \\ -6x + 4y - 7 & \Leftrightarrow 10x - 10y - 3 = 0 & (b_2) \end{cases}$$

$$d_1: 2x - 3y - 5 = 0$$

$$m_1 = \frac{2}{3}$$

$$\text{si } x = -5 : -10 - 3y - 5 = 0$$

$$-3y = 15$$

$$y = -5$$

$$\underline{(-5; -5)}$$

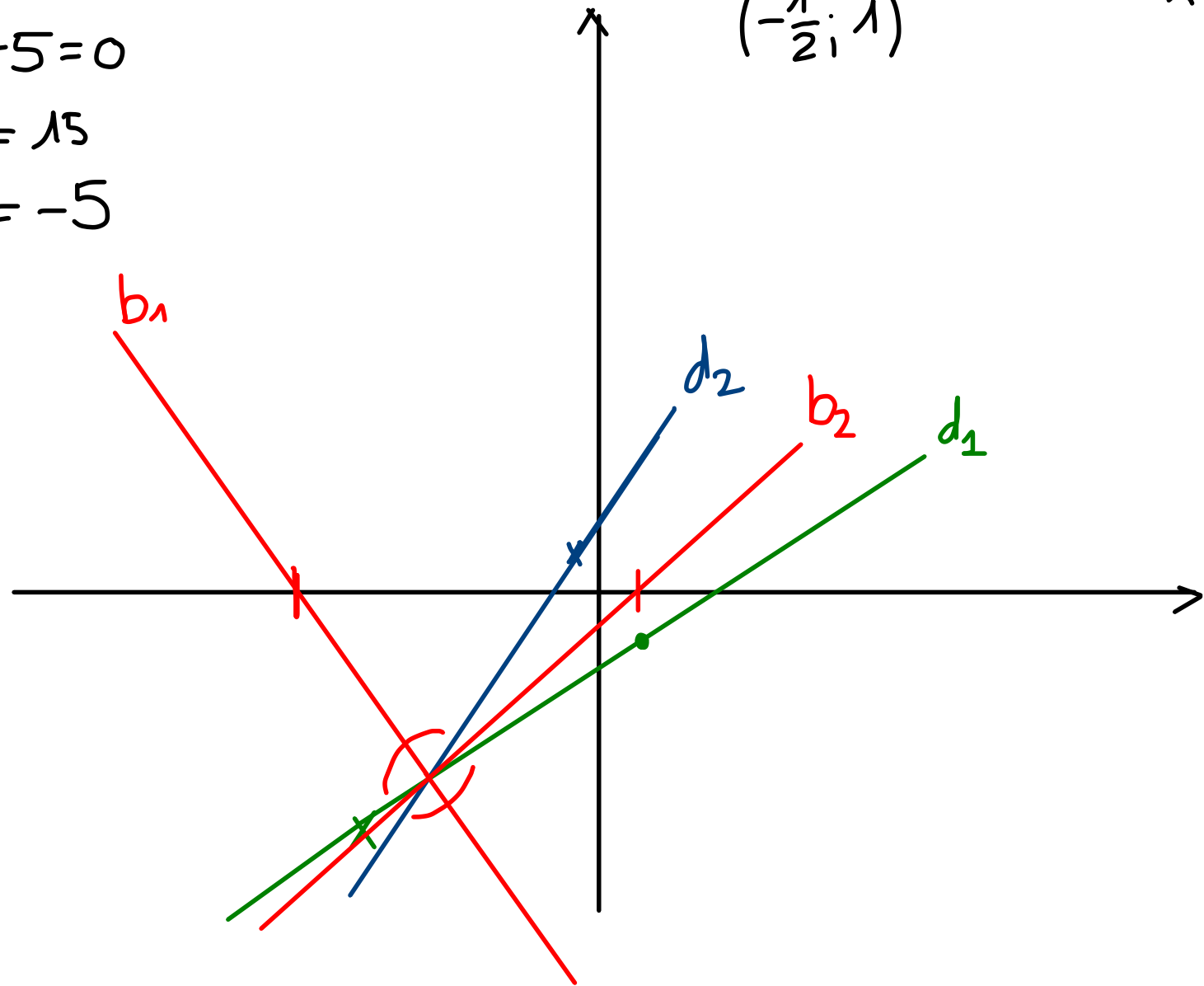
$$d_2: 6x - 4y + 7 = 0$$

$$m_2 = \frac{3}{2}$$

$$\text{si } y = 1$$

$$\left(-\frac{1}{2}; 1\right)$$

$$\begin{aligned} 6x - 4 + 7 &= 0 \\ 6x &= -3 \\ x &= -\frac{1}{2} \end{aligned}$$



$$\Rightarrow \underline{b_1: 2x + 2y + 17 = 0} \quad \text{car } m = -1 \quad (\text{droite descend})$$