1.7

#A : x

#B : y

f objectif : Profit

50x + 20y

Contraintes

	80 h	120 kg
A	1 · x h	3x kg
B	2y h	2y kg

$$x + 2y \leq 80$$

$$3x + 2y \leq 120$$

} A' dessiner

Technique

Résoudre graphiquement

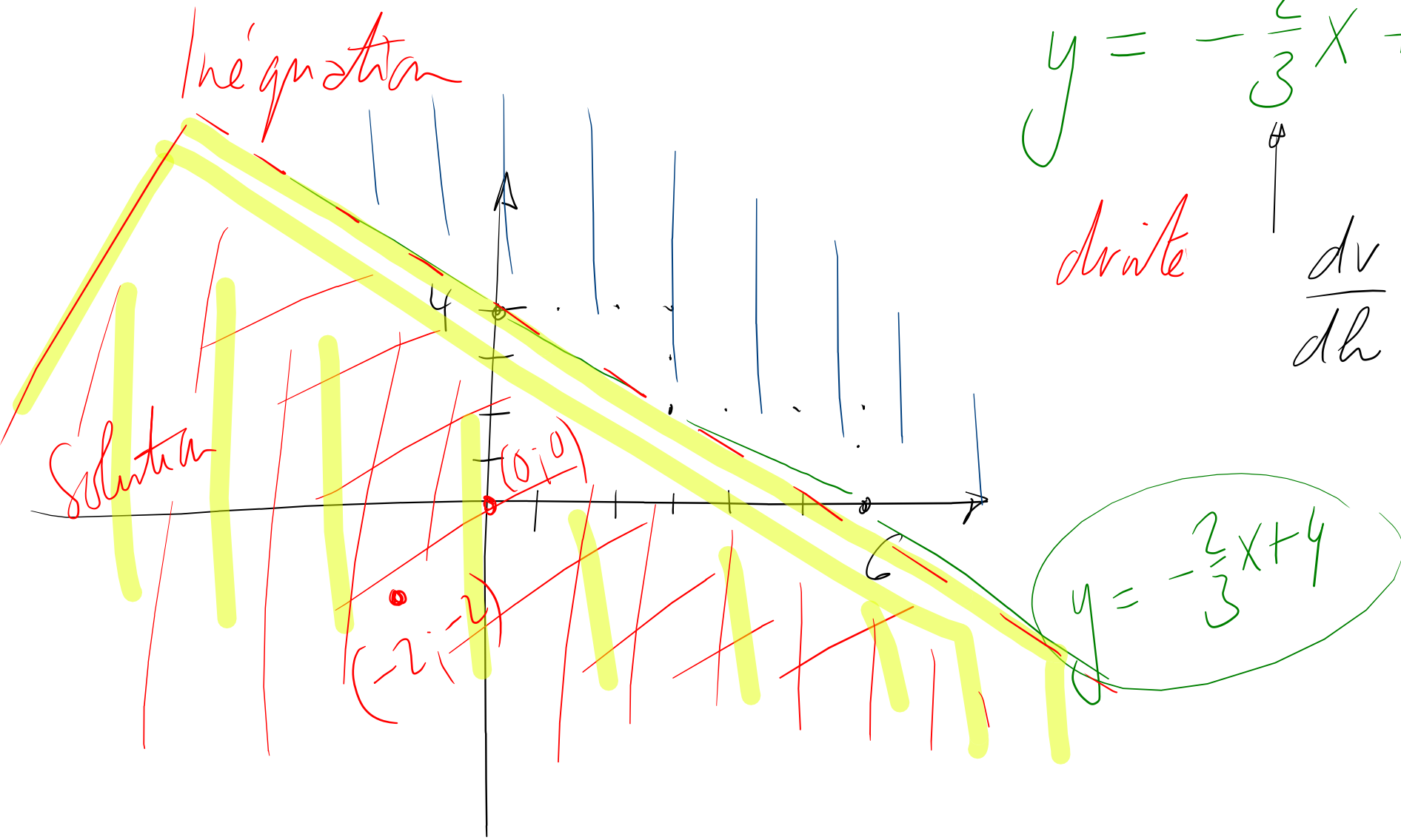
$2x + 3y - 12 \leq 0$

Equation

$2x + 3y - 12 = 0 \quad 3y = -2x + 12$

$y = -\frac{2}{3}x + 4$

Inéquation



droite

$\frac{dv}{dh}$

$$2x+3y-12 \overset{?}{<} 0$$

$(2;5)$

$2x+3y-12<0$

$2\cdot 2+3\cdot 5-12 = 4+15-12 = 7$

$(-3;8)$

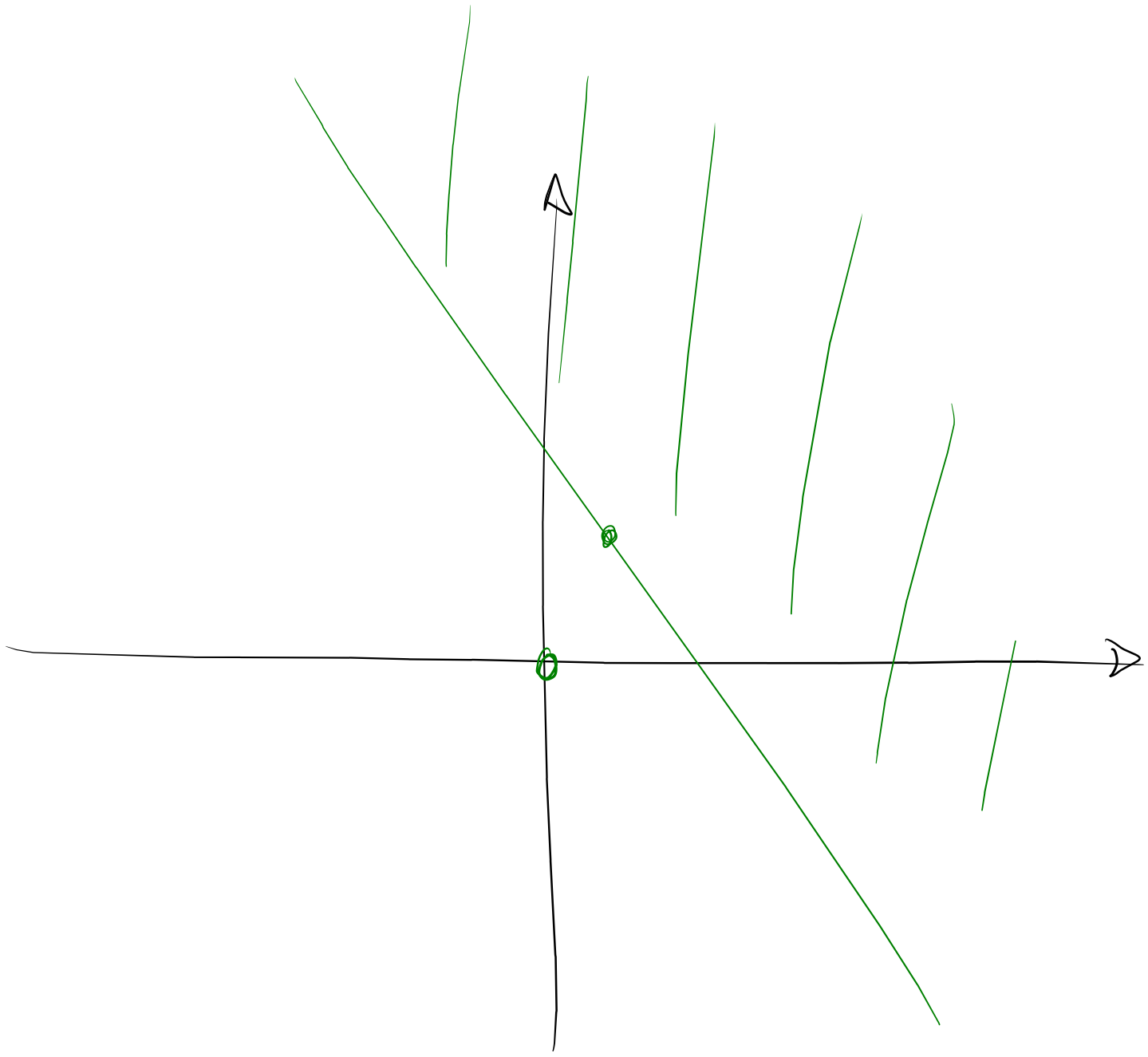
$-6+24-12 = 6$

$(6;6)$

$12+18-12 = 18$

$(-2;-2)$

$-4-6-12 = -22$



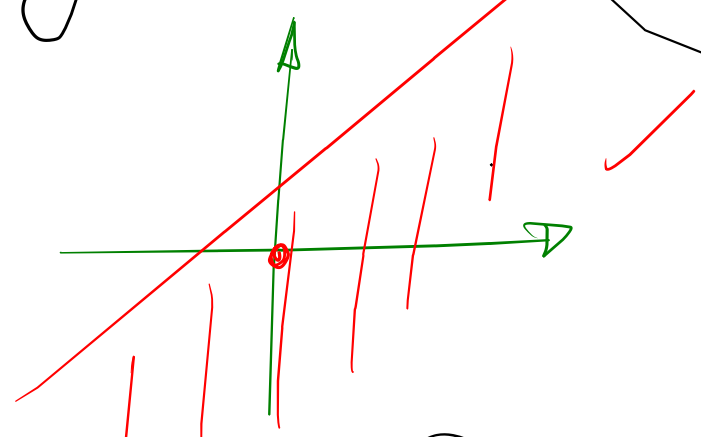
Résolution inéq.

$$ax + by + c \geq 0 \quad ?$$

① Droite associée : $ax + by + c = 0$

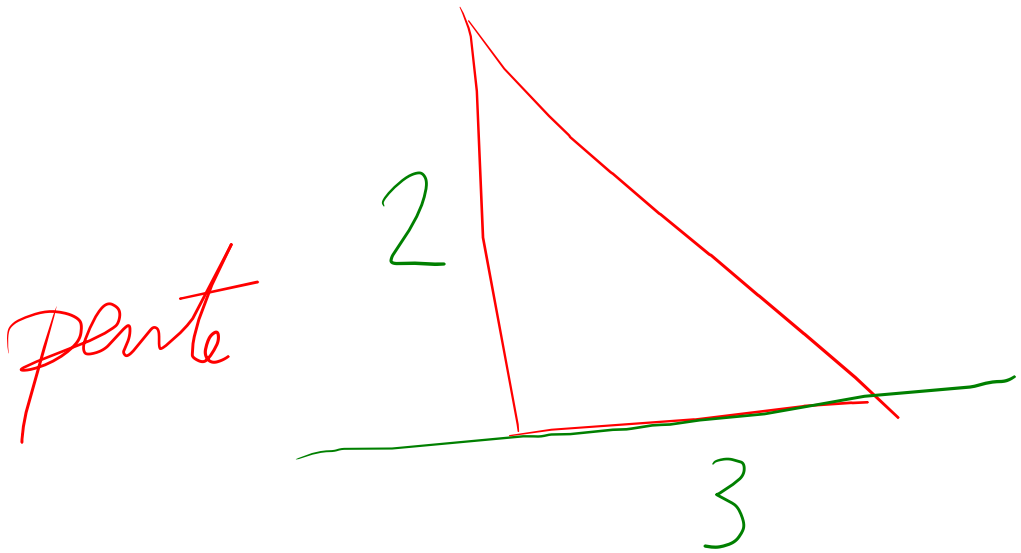
↳ $y = mx + h$ forme affine

② Dessiner la droite



③ Tester avec un point : Donne la bonne zone

$$y = -\frac{2}{3}x + 1$$



$$\frac{1}{2}x + 3y \geq 0 \quad \Leftrightarrow \quad x + 6y \geq 0$$

$$\Leftrightarrow \quad -x - 6y \leq 0$$