2.17

$$\frac{\#\ pommes}{pommier} = 888 - 12x$$

\# pommiers

b)

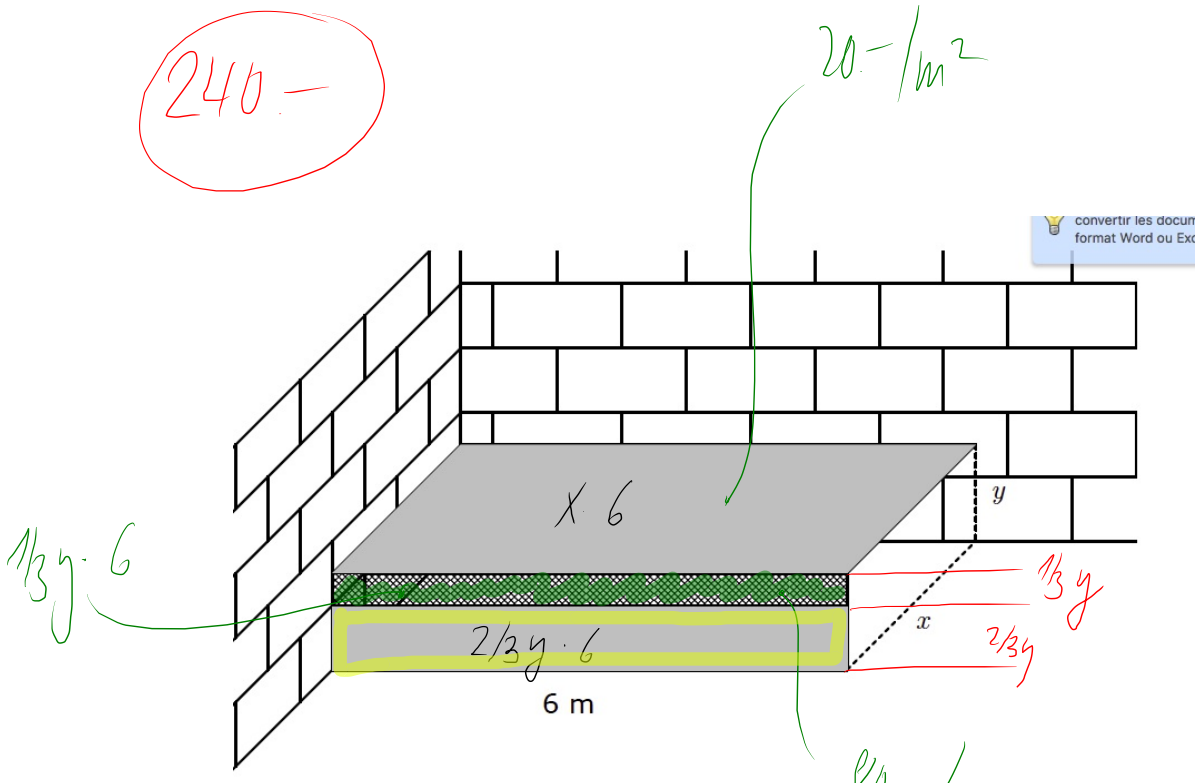
\# TOTAL DE POMMES : $x(888 - 12x) =$

$$888x - 12x^2 =$$

$$T(x) = -12x^2 + 888x + 0$$

c) UN MAX. DE POMMES

240 –



$$\left(\frac{1}{3}y \cdot 6 \cdot 80\right) + \left(6x + \frac{2}{3}y \cdot 6\right) \cdot 20 = 240$$

$$160y + (6x + 4y)\,20 = 240$$

$$160y + 120x + 80y = 240$$

$$240y = -120x + 240 \qquad \div 240$$

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

$$= -\frac{1}{2}(x - 2) = \frac{1}{2}(2 - x)$$

2.13

$$-5t^2 + 20t + 105 = 0$$

$$\Delta = 400 - 4 \cdot (-5) \cdot 105$$

$$= 400 + 2100 = 2500$$