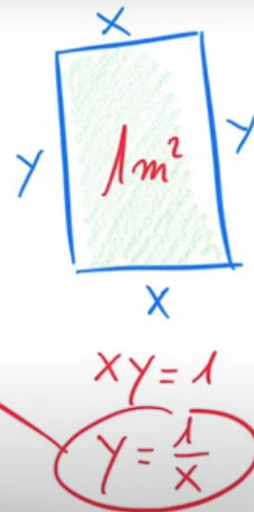


$$C(x,y) = 8x + 8x + 12.5y + 12.5y$$

$$C(x,y) = 16x + 25y$$

$$C(x) = 16x + 25 \cdot \frac{1}{x}$$

$$C(x) = 16x + \frac{25}{x}$$

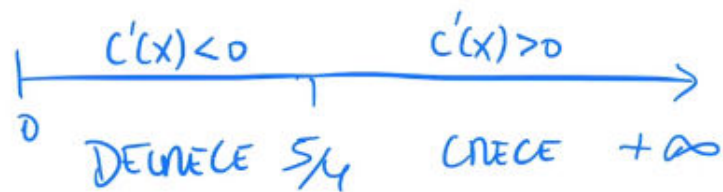


$$C'(x) = 16 + \frac{0 \cdot x - 25 \cdot 1}{x^2}$$

$$C'(x) = 16 - \frac{25}{x^2}$$

$$16 - \frac{25}{x^2} = 0 \Rightarrow 16 = \frac{25}{x^2} \Rightarrow 16x^2 = 25$$

$$x^2 = \frac{25}{16} \Rightarrow x = \pm \sqrt{\frac{25}{16}} = \pm \frac{5}{4}$$



$$x = \frac{5}{4} = 1.25 \text{ m}$$

$$y = \frac{1}{\frac{5}{4}} = \frac{4}{5}$$

Mínimo

$$x = 1.25 \text{ m}$$

$$y = 0.80 \text{ m}$$