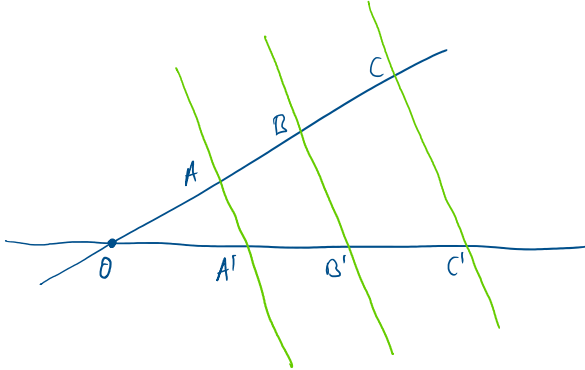


7. TEOREMA DE TALES

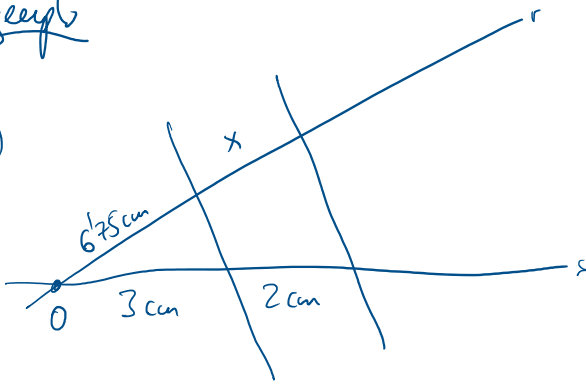
Si dos rectas secantes son cortadas por rectas paralelas entonces los segmentos determinados en la rectas secantes, son proporcionales.



$$\frac{OA}{OA'} = \frac{AB}{A'B'} = \frac{BC}{B'C'}$$

Ejemplo

a)



$$\frac{6.75}{3} = \frac{x}{2}$$

$$\frac{3}{6.75} = \frac{2}{x}$$

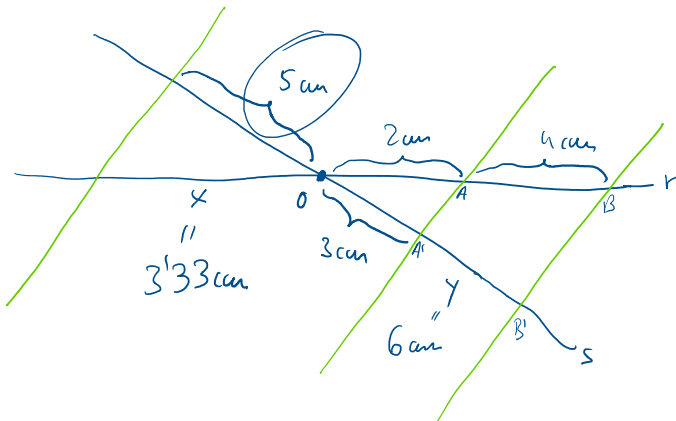
$$6.75 \cdot 2 = 3x$$

$$3x = 6.75 \cdot 2$$

$$x = \frac{6.75 \cdot 2}{3} = 4.5 \text{ cm}$$

$$x = \frac{6.75 \cdot 2}{3} = 4.5 \text{ cm}$$

b)



$$\frac{2}{3} = \frac{4}{y}$$

$$\frac{2}{3} = \frac{x}{5}$$

$$2y = 12$$

$$10 = 3x$$

$$y = 6 \text{ cm}$$

$$x = \frac{10}{3} = 3.33 \text{ cm}$$