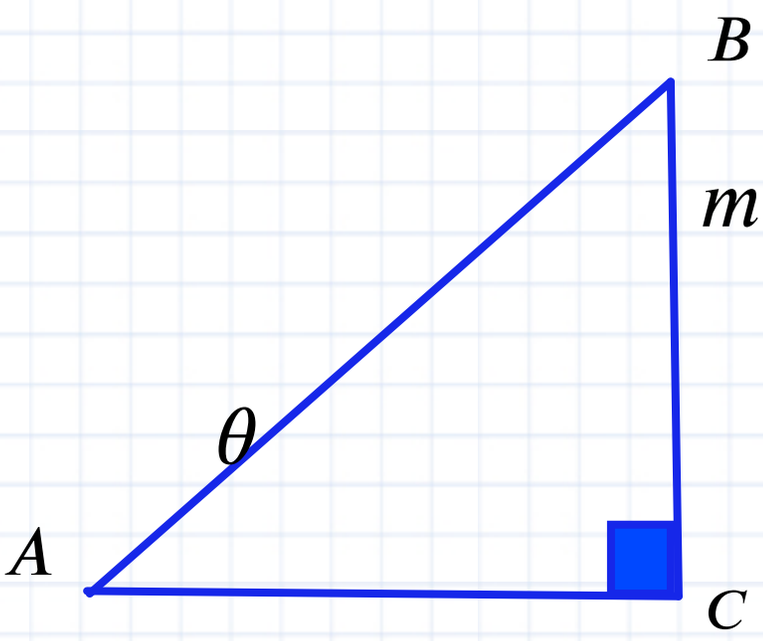
AULA 7

1

Determinar el área del triángulo mostrado.



$$A = S = \frac{Bh}{2}$$

$$S = \frac{AC.BC}{2}$$

$$Ctg\,\theta = \frac{AC}{BC}$$

$$Ctg\,\theta = \frac{AC}{m}$$

$$m.Ctg\,\theta = AC$$

$$S = \frac{(m.Ctg\,\theta)\,m}{2}$$

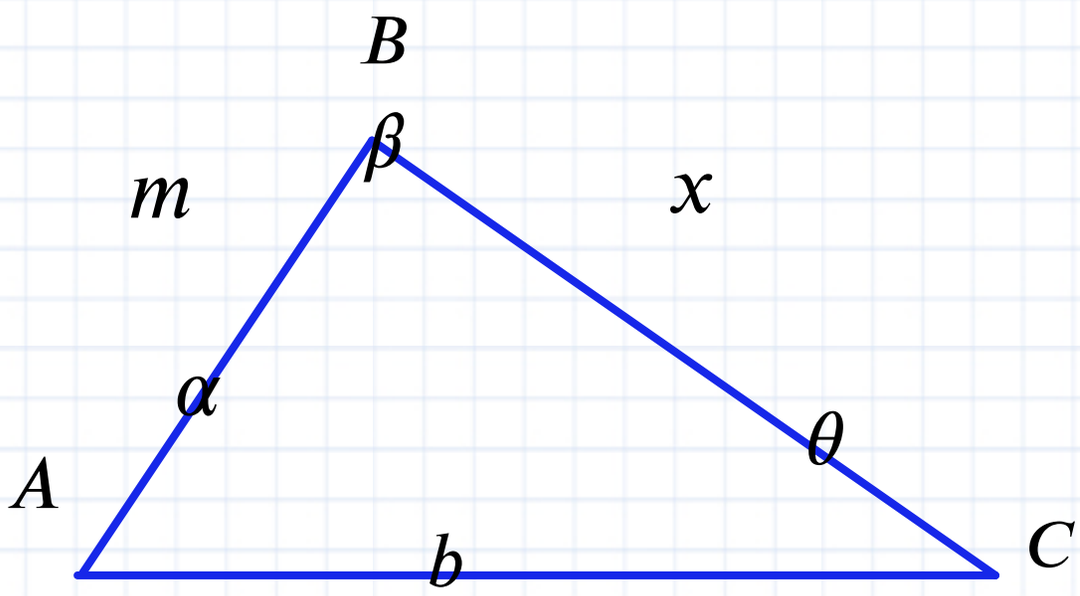
$$S = \frac{m^2.Ctg\,\theta}{2} = \left(\frac{1}{2}\right)\left(m^2.Ctg\,\theta\right)$$

$$S = 0.5m^2Ctg\,\theta$$

$$\frac{1}{2} = 0.5$$

2

Del gráfico determine x



Ley de Senos

$$\frac{x}{Sen\,\alpha} = \frac{m}{Sen\,\theta} = \frac{b}{Sen\,\beta}$$

$$Sen\,\alpha.\,Csc\,\alpha = 1$$

$$Sen\,\alpha = \frac{1}{Csc\,\alpha}$$

$$\frac{x}{Sen\,\alpha} = \frac{m}{Sen\,\theta}$$

$$x = \frac{m.Sen\,\alpha}{Sen\,\theta}$$

$$x = \frac{m.Sen\alpha}{\frac{1}{1}}$$

$$x = m.Sen\,\alpha.\,Csc\,\theta$$