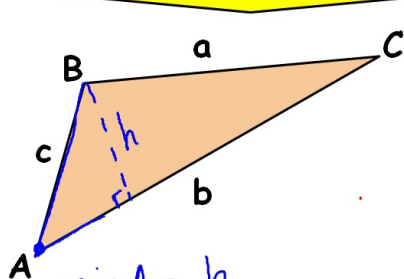


10-5 Area of a Triangle formula



$$\sin A = \frac{h}{c}$$

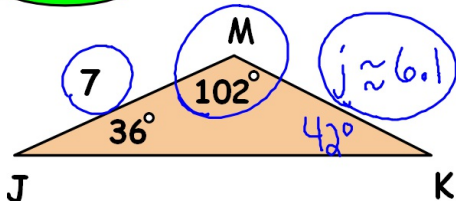
$$\underline{c \sin A = h}$$

$$A = \frac{1}{2} b h$$

$$\text{Area} = \frac{1}{2} b c \sin A$$

$$= \frac{1}{2} (\text{side}_1 \cdot \text{side}_2 \cdot \sin \text{included } \angle)$$

ex. Find area of $\triangle JKM$



$$\frac{\sin 42^\circ}{7} = \frac{\sin 36^\circ}{j}$$

$$\text{Area} = \frac{1}{2} (7)(6.1) \sin 102^\circ$$

$$\approx \underline{20.9 \text{ units}^2}$$