



a) $a = ?$

$$\sin \theta = \frac{\text{opp}}{\text{hyp}} = \frac{a}{c}$$

$$\sin 30^\circ = \frac{a}{3.00 \text{ m}}$$

$$a = 1.50 \text{ m}$$

b) $b = ?$

$$\cos \theta = \frac{\text{adj}}{\text{hyp}} = \frac{b}{c}$$

$$\cos 30^\circ = \frac{b}{3.00 \text{ m}}$$

$$b = 2.60 \text{ m}$$