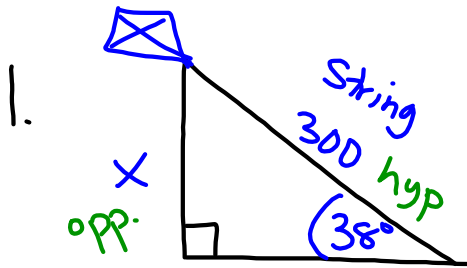


Trig Story Problems

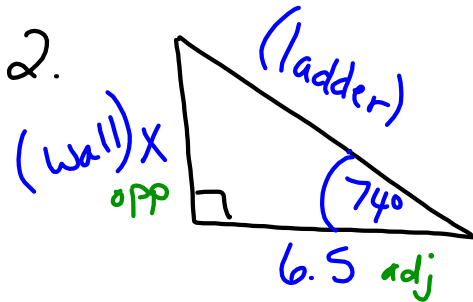


$$\sin = \frac{\text{opp}}{\text{hyp}}$$

$$\frac{\sin 38^\circ}{1} = \frac{x}{300}$$

$$x = 300 \sin 38^\circ$$

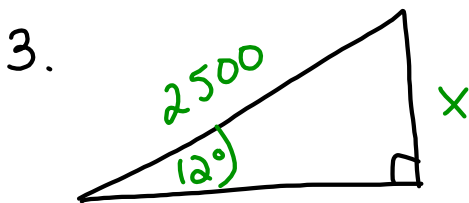
$$x = 184.7 \text{ ft}$$



$$\tan 74^\circ = \frac{x}{6.5}$$

$$x = 6.5 \tan 74^\circ$$

$$x = 22.7 \text{ ft}$$



3. 519.8 ft

7. 57°

4. 2057.8 ft

8. 7°

5. $x = 37.7 \text{ ft}$

9. 69°

6. $x = 136.7 \text{ ft}$