

5) An arrow has traveled 85 ft. at an angle of 35° with the ground. How high is the arrow above the ground? What is its horizontal distance?

6)

$$|V_x| = 27.2$$
$$|V_y| = 16.8$$

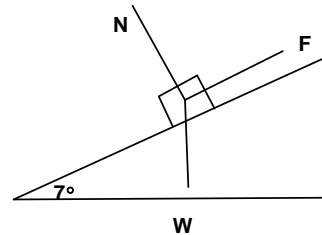
find $|V|$

7)

$$|V| = 45$$
$$\theta = 17^\circ$$

find $|V_x|$ and $|V_y|$

8) A box is resting on a ramp that is at an angle of 7° . If the box weighs 82 lbs, find the magnitude of F (friction vector) and N (normal vector).



9) A man pushes his stalled car 75 ft. to the side of the road. If he exerts a force of 65 lbs. at an angle of 20° down from the horizontal, how much work is done?