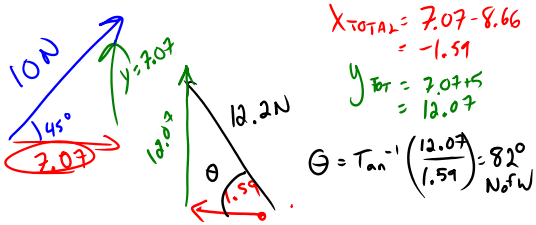


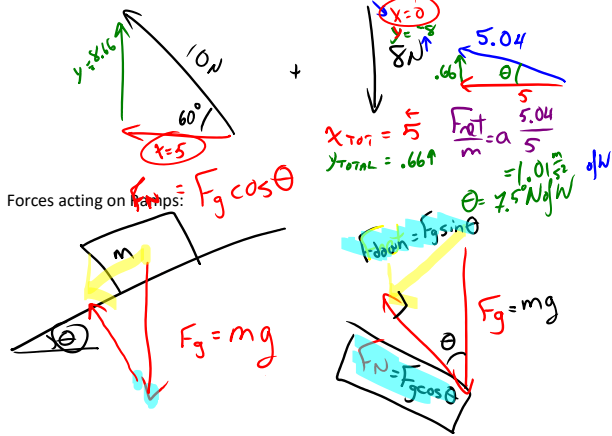
Vectors and Forces

Remember, forces are vectors. When you go to add forces draw them tip to tail. Find X-components and Y-components, get an X-total and Y-total, draw tip to tail find resultant. The resultant of adding forces is F_{net} .



$F_y = \dots \cos 30$

A cat of mass 5.0 kg is pulled with 10N at 60° N of W and another force of 8.0 N due south, find the cat's acceleration!!



A 5.0 kg cat is on a frictionless ramp inclined at 30°, what is the net force on el gato, and what is its acceleration???

$$F_{net} = mg \sin \theta = a$$

$$t = a = \frac{24.5 \cdot 4.9}{5}$$

A rock rolls down a hill from rest to a velocity of 5.0 m/s in 15 s, calculate the slope of the (frictionless) hill.

