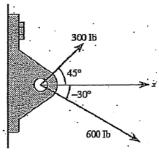
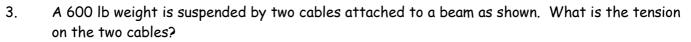
Accel Precalc Practice Worksheet: Force Vectors and Static Equilibrium Name ______

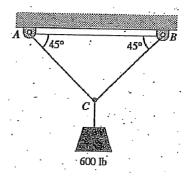
Unit #8: Extended Trigonometry Lesson 8: Velocity and Force Vectors

1. Forces of 300 lb and 600 lb act on a machine part at angles of 45° and -30°, respectively, with the x-axis. Find the direction and magnitude of the resultant vector.



2. A box of supplies that weighs 1200 lb is suspended by two cables attached to the ceiling as shown below, What is the tension of the two cables?





4. A person is standing on a tightrope, as shown below. The total weight of the person and the balancing pole is 200 lb. Find the tension in each end of the tightrope.

