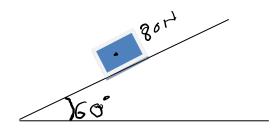


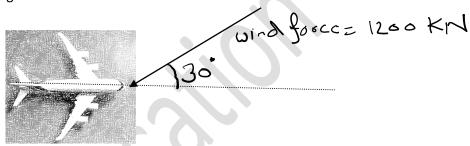
P8: Forces in Balance

Q1: A Box is resting on the slope as shown in figure. Calculate the horizontal and vertical components of the weight. Describe the friction of the box.



Q2: A student pushed a trolley of weight 700 N up a slope that is inclined 30° to the horizontal. Determine the component weight down the slope.

Q3: An aircraft is travelling due east at a constant speed. Determine the component of the wind force along the line in which aircraft is moving.



Q4 : Find the tension T in the string in the following diagram if the two sections of the string at angle of 35° to a horizontal line through the lowest point P of the string.

