## K Edication Centre

## GCSE Physics Forces P8

Forces in Balance - Assignment 3

Assignment Questions
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## 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 $30^{\circ}$ 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 $35^{\circ}$ to a horizontal line through the lowest point $P$ of the string.


