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Physics Homework **Name _____**

Date _____ Period _____

Show PAWS

1) Draw a free body diagram of a book sitting on an inclined plane of 25 degrees.

2) Find the normal force when a box with a mass of 25Kg sits on a level surface.

3) Find the normal force when a box with a mss of 25Kg sits on an inclined plane of 20.0 degrees.

4) A box of 50.0kg is being pulled at a constant speed across a level surface by a force of 350N. Find the coefficient of kinetic friction.

5) A 10.0 box slides down a ramp with an angle of 30.0 degrees. If the coefficient of kinetic friction is 0.50 find the acceleration of the box.