

## **7C Limiting Friction on Slopes**

1. A box of mass 10kg rests in limiting equilibrium on a rough plane inclined at  $20^\circ$  above the horizontal. Find the coefficient of friction between the box and the plane.

2. A horizontal force of magnitude  $P$  N is applied to the box. Given that the box remains in equilibrium, find the maximum value of  $P$ .

It is very important to notice that this force will be attempting to push the box up the slope