- 5.29 Block A of weight 100 N rests on a frictionless inclined plane of slope angle 30° (Fig. 5.7). A flexible cord attached to A passes over a frictonless pulley and is connected to block B of weight W. Find the weight W for which the system is in equilibrium.
- 5.30 A block of mass M is held against a rough vertical wall by pressing it with a finger. If the coefficient of friction between the block and the wall is μ and the acceleration due to gravity is g calculate the minimum force required to be applied by the finger to hold the block against the wall?

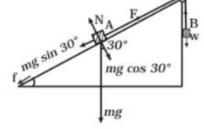


Fig. 5.7

$$W = mg \sin 30^{\circ}$$

$$W = 100 \times \frac{1}{2} = 50 N$$

$$W = N$$

$$W = N$$

$$W = F$$

$$W = F$$

$$W = F$$

$$W = F$$

$$W = F$$