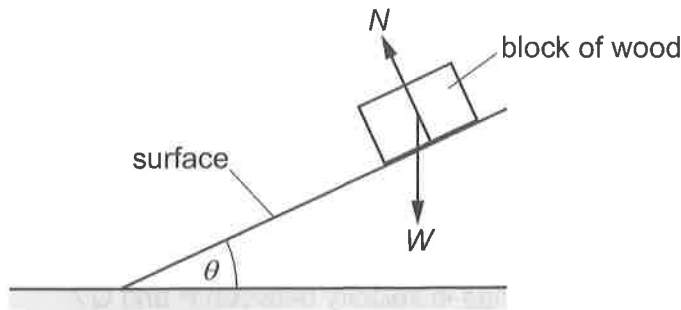
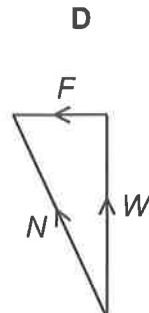
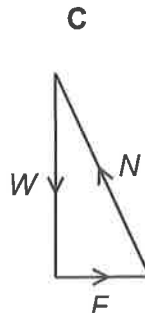
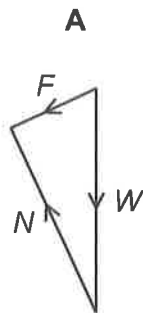


- 13 A block of wood of weight  $W$  rests on a surface that is held at an angle  $\theta$  to the horizontal.



The block of wood is prevented from sliding down the slope by a frictional force  $F$  between the block of wood and the surface. The normal contact force is  $N$ .

Which vector triangle shows the frictional force  $F$  on the block of wood?



- 14 A cyclist is travelling down a hill at a constant velocity.