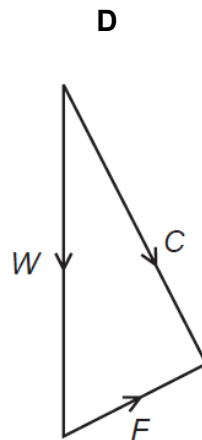
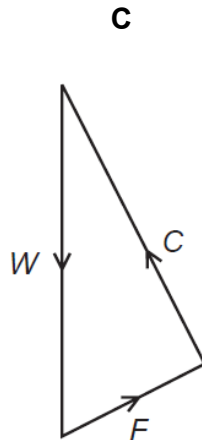
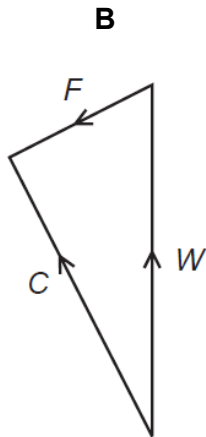
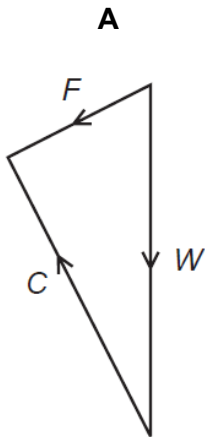


- 6 A sledge slides down a slope at a constant velocity. The three forces that act on the sledge are the normal contact force  $C$ , the weight  $W$  and a constant frictional force  $F$ .

Which diagram represents these forces acting on the sledge?



- 7 A piston in a gas supply pump has an area of  $600 \text{ cm}^2$  and it moves a distance of  $40 \text{ cm}$