

- 6** Under which of the following conditions can a ladder standing on a frictionless horizontal floor and leaning against a rough vertical wall be in equilibrium?
- A** The normal force exerted by the floor on the ladder equals the normal force the wall exerts on the ladder.
 - B** The weight of the ladder is equal in magnitude to the frictional force the wall exerts on the ladder.
 - C** Sum of the normal force exerted by the floor on the ladder and the frictional force the wall exerts on the ladder equals the weight of the ladder.
 - D** A ladder in this situation cannot be in equilibrium.