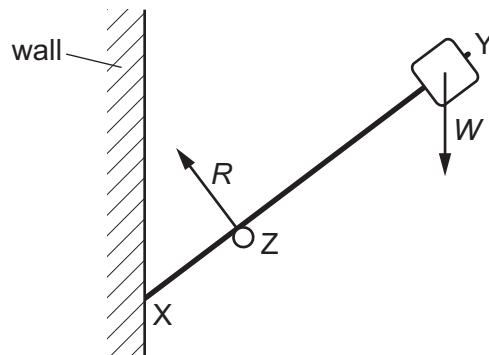


- 12** A light rigid rod  $XY$  has an object of weight  $W$  fixed at one end. The rod is in equilibrium, resting on a roller at  $Z$  and a vertical wall at  $X$ . The roller exerts a force  $R$  on the rod as shown. The diagram shows the directions, but not the magnitudes, of the forces  $R$  and  $W$ .



What is the direction of the force on the rod at  $X$ ?

