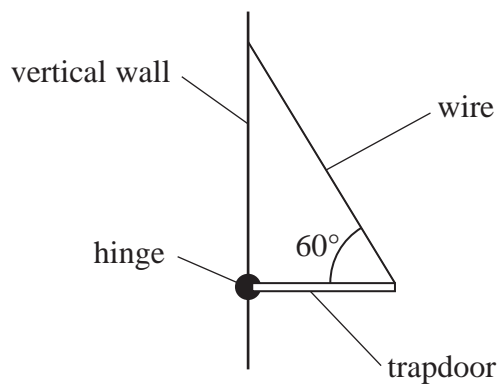
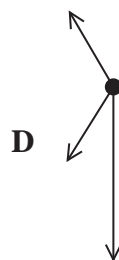
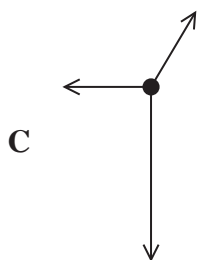
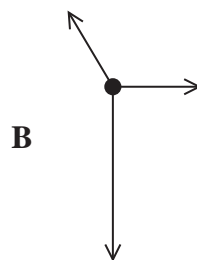
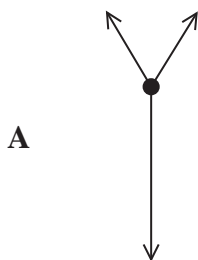


6

A trapdoor is fixed to a vertical wall with a hinge. A wire is attached to the other end of the trapdoor and inclined at an angle of 60° , as shown. The wire holds the trapdoor horizontal.



Which of the following shows the free-body force diagram for the trapdoor?


☐ **A**
☐ **B**
☐ **C**
☐ **D**

(Total for Question 6 = 1 mark)