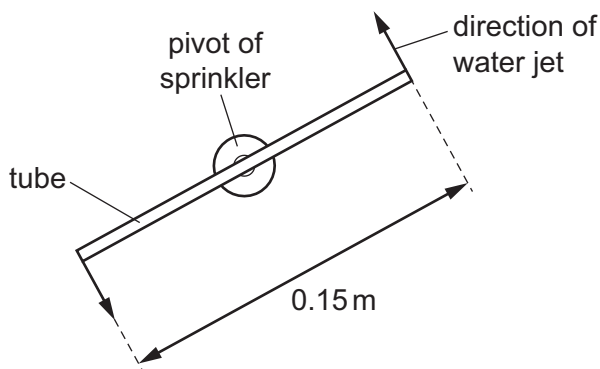


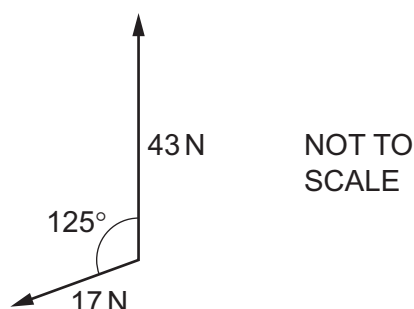
- 10 The diagram shows the view from above of a sprinkler system used to water a garden.



The sprinkler consists of a tube of length 0.15 m. The tube is pivoted in the middle and spins in a horizontal plane as it lets out jets of water from each end. The two water jets are in opposite directions to each other. Each water jet exerts a horizontal force of 3.0 N on the tube at right angles to the tube.

What is the magnitude of the torque on the tube from the water jets?

- A** 0 N m      **B** 0.23 N m      **C** 0.45 N m      **D** 0.90 N m
- 11 An object is held in equilibrium by three forces. The forces all act in the same plane. The diagram shows two of the forces that act on the object.



The third force is missing from the diagram.

What is the third force?

