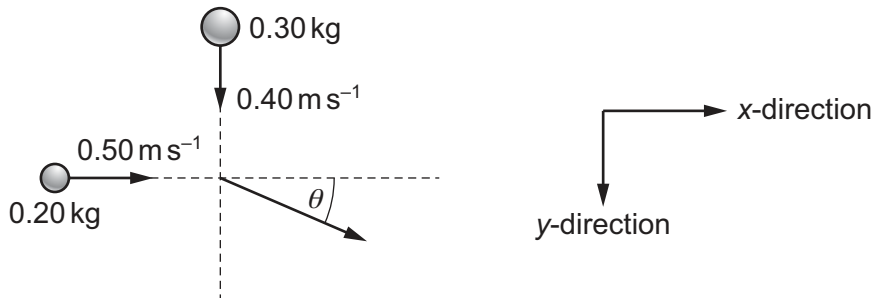


- 9 A ball of mass 0.20 kg , travelling in the x -direction at a speed of 0.50 m s^{-1} , collides with a ball of mass 0.30 kg travelling in the y -direction at a speed of 0.40 m s^{-1} .

The two balls stick together after the collision, travelling at an angle θ to the x -direction.



What is the value of θ ?

- A** 39° **B** 40° **C** 50° **D** 51°

- 10 Four cuboids with identical lengths, breadth and heights are immersed in water. The cuboids are