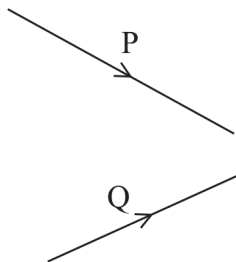


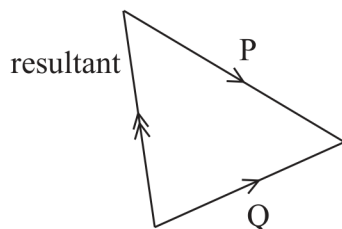
- 9 The diagram shows the momenta  $P$  and  $Q$  of two bodies about to collide.



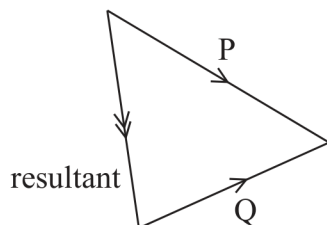
When the bodies collide they merge and move on as a single body.

Which of the following diagrams shows the resultant momentum?

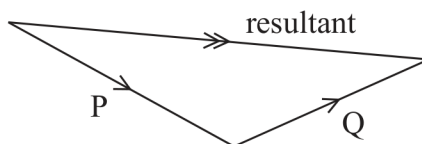
☒ A



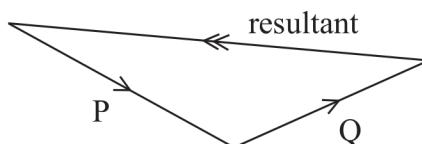
☒ B



☒ C



☒ D



(Total for Question 9 = 1 mark)