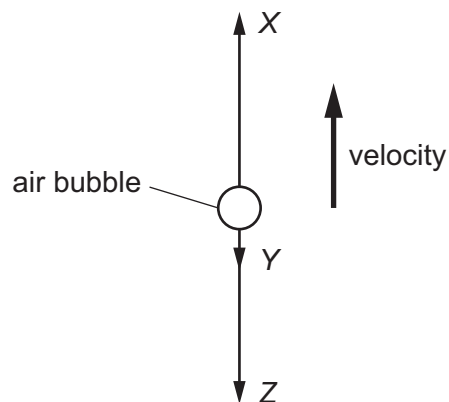


- 9 An air bubble in a tank of water is rising with terminal (constant) velocity. The forces acting on the bubble are X , Y and Z , as shown.



The upthrust on the bubble is X .

Which statement about the forces is correct?

- A** Z is the viscous force on the bubble, Y is the weight of the bubble and $X = Y + Z$.
- B** Z is the viscous force on the bubble, Y is the weight of the bubble and $X > Y + Z$.
- C** Z is the weight of the bubble, Y is the viscous force on the bubble and $X = Y + Z$.
- D** Z is the weight of the bubble, Y is the viscous force on the bubble and $X > Y + Z$.