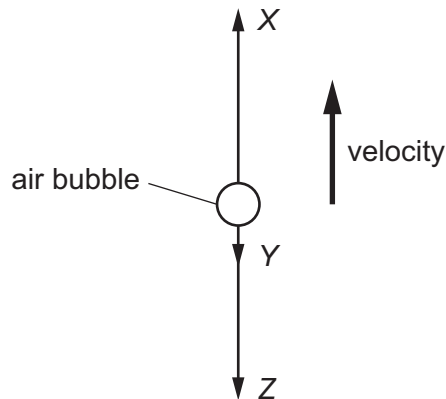


- 15 An air bubble in a tank of water is rising with constant velocity. The forces acting on the bubble are X , Y and Z as shown.



What describes the three forces?

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

- 16 The diagrams represent systems of coplanar forces acting at a point. The lengths of the forces