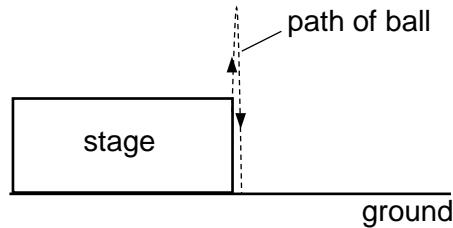
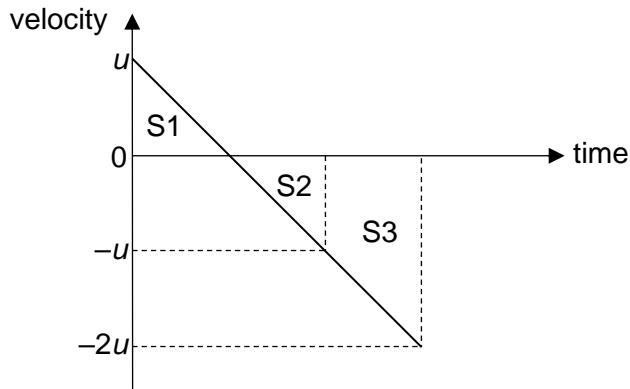


- 4 A ball is thrown vertically upwards from the edge of a stage with speed u and hits the ground at the foot of the stage with speed $2u$. The time taken for the ball to reach its maximum height is t .



The graph shows how the velocity of the ball varies from the time it is thrown to the time it hits the ground. The areas under different sections of the graph are labelled S_1 , S_2 and S_3 .



Which graph shows the variation of the displacement of the ball with time?

