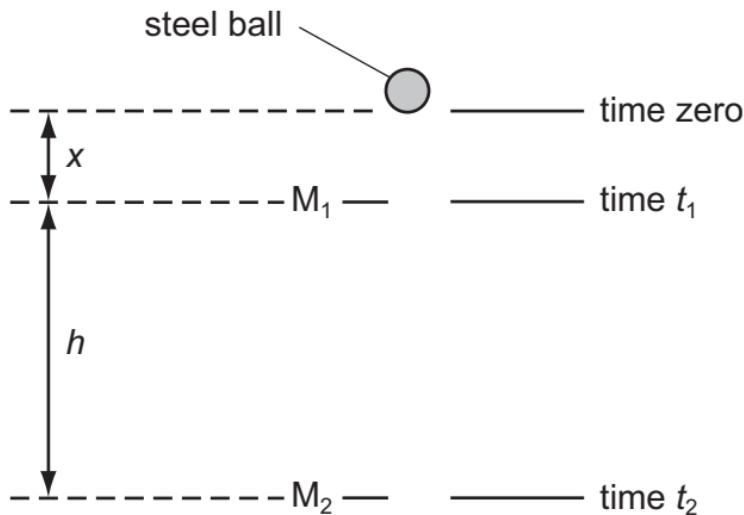


- 7 Two markers  $M_1$  and  $M_2$  are set up a vertical distance  $h$  apart.



A steel ball is released at time zero from a point a distance  $x$  above  $M_1$ . The ball reaches  $M_1$  at time  $t_1$  and reaches  $M_2$  at time  $t_2$ . The acceleration of the ball is constant.

Which expression gives the acceleration of the ball?

A  $\frac{2h}{t_2^2}$

B  $\frac{2h}{(t_2+t_1)}$

C  $\frac{2h}{(t_2-t_1)^2}$

D  $\frac{2h}{(t_2^2-t_1^2)}$

- 8 A car driver sharply presses down the accelerator when the traffic lights go green. The resultant