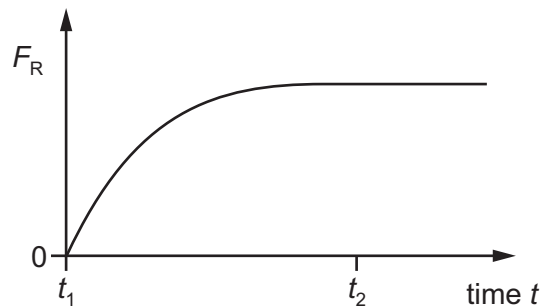


13 A light ball is falling vertically through air.

The variation with time  $t$  of the resistive force  $F_R$  acting on the ball is shown.



At which times are the speed of the ball zero, the speed at a maximum and the acceleration zero?

	zero speed	maximum speed	zero acceleration
<b>A</b>	$t_1$	$t_2$	$t_1$
<b>B</b>	$t_1$	$t_2$	$t_2$
<b>C</b>	$t_2$	$t_1$	$t_1$
<b>D</b>	$t_2$	$t_1$	$t_2$

14 Which diagram best shows the forces acting on a ball falling at a constant velocity through a