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•12–8. A particle is moving along a straight line with the acceleration $a = (12t - 3t^{3/2}) \text{ ft/s}^2$, where t is in seconds. Determine the velocity and the position of the particle as a function of time. When $t = 0$, $v = 0$ and $s = 15 \text{ ft}$.

Velocity:

$$\begin{aligned} (+\curvearrowright) \quad dv &= a \, dt \\ \int_0^v dv &= \int_0^t (12t - 3t^{3/2}) \, dt \\ v|_0^v &= (6t^2 - 2t^{5/2}) \Big|_0^t \\ v &= (6t^2 - 2t^{5/2}) \text{ ft/s} \end{aligned}$$

Ans.

Position: Using this result and the initial condition $s = 15 \text{ ft}$ at $t = 0 \text{ s}$,

$$\begin{aligned} (+\curvearrowright) \quad ds &= v \, dt \\ \int_{15}^s ds &= \int_0^t (6t^2 - 2t^{5/2}) \, dt \\ s|_{15}^s &= \left(2t^3 - \frac{4}{7} t^{7/2} \right) \Big|_0^t \\ s &= \left(2t^3 - \frac{4}{7} t^{7/2} + 15 \right) \text{ ft} \end{aligned}$$

Ans.

12–6. A ball is released from the bottom of an elevator which is traveling upward with a velocity of 6 ft/s . If the ball strikes the bottom of the elevator shaft in 3 s , determine the height of the elevator from the bottom of the shaft at the instant the ball is released. Also, find the velocity of the ball when it strikes the bottom of the shaft.

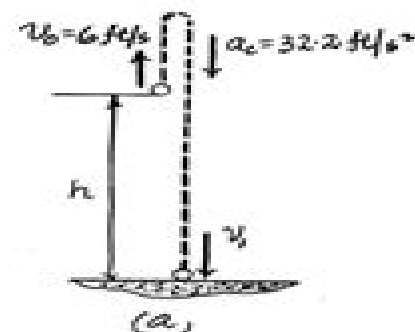
Kinematics When the ball is released, its velocity will be the same as the elevator at the instant of release. Thus, $v_0 = 6 \text{ ft/s}$. Also, $t = 3 \text{ s}$, $s_0 = 0$, $s = -h$, and $a_c = -32.2 \text{ ft/s}^2$.

$$\begin{aligned} (+\uparrow) \quad s &= s_0 + v_0 t + \frac{1}{2} a_c t^2 \\ -h &= 0 + 6(3) + \frac{1}{2} (-32.2)(3^2) \\ h &= 127 \text{ ft} \end{aligned}$$

Ans.

$$\begin{aligned} (+\uparrow) \quad v &= v_0 + a_c t \\ v &= 6 + (-32.2)(3) \\ &= -90.6 \text{ ft/s} = 90.6 \text{ ft/s} \quad \downarrow \end{aligned}$$

Ans.



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R. C. Hibbeler



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