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Solution Manual for Engineering Mechanics Dynamics 13th Edition by Hibbeler

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13-1.

The 6-lb particle is subjected to the action of its weight and forces $F_1 = 5i + ej - 2k$ lb, $F_2 = 5e^2 i - 4j - 14k$ lb, and $F_3 = 5 - 20t$ lb, where t is in seconds. Determine the distance the ball is from the origin 2 s after being released from rest.

SOLUTION

$$\text{OF} = m\ddot{\mathbf{r}}; \quad (2i + ej - 2k) + (t^2 i - 4j - 1k) + 2t - 6k = 632 \cdot 2 \sin(2t) \mathbf{i} + 6 \mathbf{j} + 6k$$

Equating components:

$$\begin{aligned} \frac{6}{6} &= 32.2 \sin(2t) t^2 - 2t + 2 \quad \frac{6}{6} = 32.2 \sin(2t) = -4t + 6 \quad \frac{6}{6} = 32.2 \sin(2t) = -2t + 7 \\ \text{Since } \mathbf{dv} = \mathbf{a} dt, \text{ integrating from } t = 0, \text{ yields} \\ \frac{6}{6} &= 32.2 \sin(2t) = -\frac{t^2}{3} + 2t \quad \frac{6}{6} = 32.2 \sin(2t) = -2t^2 + 6t \quad \frac{6}{6} = 32.2 \sin(2t) = -\frac{t^2}{7} - 7t \end{aligned}$$

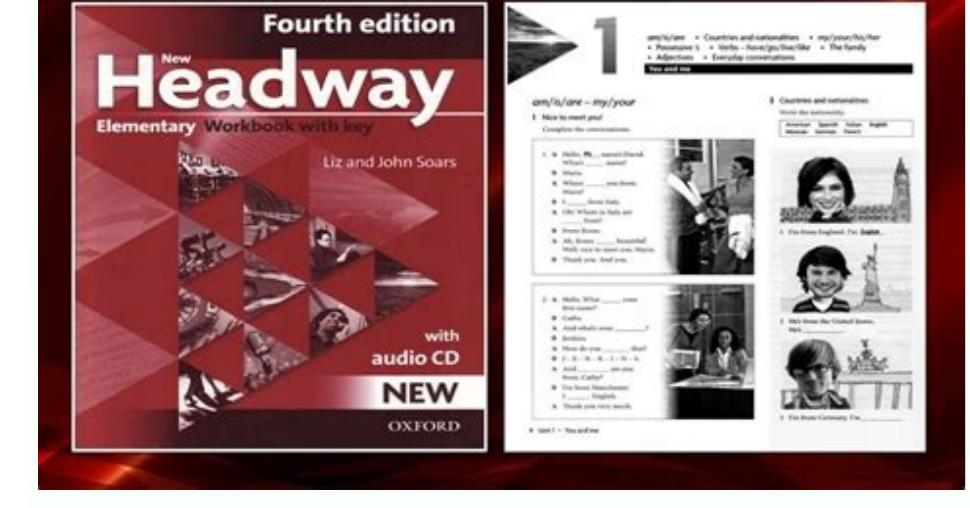
Since $d\mathbf{v} = \mathbf{a} dt$, integrating from $t = 0$, yields

$$\begin{aligned} \frac{6}{6} &= \frac{5}{3} \frac{6}{12} \frac{6}{-3 + t} \quad \frac{6}{6} = \frac{5}{3} \frac{6}{-3 + 3t} \quad \frac{6}{6} = \frac{5}{32.2} \frac{6}{-3 - \frac{2}{7}t} \quad \text{laws or} \\ \text{Since } d\mathbf{r} = \mathbf{v} dt, \text{ integrating from } t = 0, \text{ yields} \\ \frac{6}{6} &= \frac{5}{4} \frac{6}{7} \frac{6}{1} \quad \frac{6}{6} = \frac{5}{4} \frac{6}{7} \frac{6}{1} \quad \frac{6}{6} = \frac{5}{32.2} \frac{6}{-3} \frac{6}{-1} \quad \text{teaching Web} \\ \frac{6}{6} &= \frac{5}{4} \frac{6}{7} \frac{6}{1} \quad \frac{6}{6} = \frac{5}{4} \frac{6}{7} \frac{6}{1} \quad \frac{6}{6} = \frac{5}{32.2} \frac{6}{-3} \frac{6}{-1} \quad \text{desecration} \\ \frac{6}{6} &= \frac{5}{4} \frac{6}{7} \frac{6}{1} \quad \frac{6}{6} = \frac{5}{4} \frac{6}{7} \frac{6}{1} \quad \frac{6}{6} = \frac{5}{32.2} \frac{6}{-3} \frac{6}{-1} \quad \text{copyright Wide} \\ \frac{6}{6} &= \frac{5}{4} \frac{6}{7} \frac{6}{1} \quad \frac{6}{6} = \frac{5}{4} \frac{6}{7} \frac{6}{1} \quad \frac{6}{6} = \frac{5}{32.2} \frac{6}{-3} \frac{6}{-1} \quad \text{infringement} \\ \frac{6}{6} &= \frac{5}{4} \frac{6}{7} \frac{6}{1} \quad \frac{6}{6} = \frac{5}{4} \frac{6}{7} \frac{6}{1} \quad \frac{6}{6} = \frac{5}{32.2} \frac{6}{-3} \frac{6}{-1} \quad \text{permitted} \end{aligned}$$

When $t = 2$ s then, $\frac{6}{6} = 14.31$ ft, $\frac{6}{6} = 35.78$ ft, $\frac{6}{6} = 89.44$ ft, the is not United States or the is not World and the is not work for student work.

Thus, $\frac{6}{6} = \frac{5}{32.2} \frac{6}{-3} \frac{6}{-1}$

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