

Solution Manual for Transportation Engineering and Planning, 3/E 3rd Edition C.S. Papacostas, P.D. Prevedouros

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CHAPTER 2

2/1 $v = -12 \text{ mi/h} = 17.6 \text{ ft/s}$ and $x = 0.0 \text{ ft}$.

Interval $0 \leq t < 5 \text{ s}$.

⑧ $a = t \text{ ft/s}^2$. By integration, $v = \int a \, dt + 17.6 \text{ ft/s}$.

$$\frac{dx}{dt} = v \quad \text{and} \quad x = \frac{t^3}{3} + 17.6t + 0.0 \text{ ft}.$$

—When $t = 5 \text{ s}$, $v(5) = 30.1 \text{ ft/s}$ and $x(5) = 108.8 \text{ ft}$.

Interval $5 \leq t < 15 \text{ s}$ or $0 \leq (t - 5) < 10$

⑧ $a = 5 \text{ ft/s}^2$ and $v = 5(t - 5) + 30.1 \text{ ft/s}$.

⑨ $x = v$. Therefore, $x = \frac{5}{2}(t - 5)^2 + 30.1(t - 5) + 108.8 \text{ ft}$.

—When $t = 15 \text{ s}$, $v(15) = 80.1 \text{ ft/s}$ and $x(15) = 659.8 \text{ ft}$.

Interval $15 \leq t < 20 \text{ s}$ or $0 \leq (t - 15) < 5$

⑧ $a = -\frac{8}{5}(t - 15) \text{ ft/s}^2$ and $v = -\frac{8}{10}(t - 15)^2 + 80.1$, so a tells.

⑨ $x = v$. Consequently, $x = -\frac{8}{150}(t - 15)^3 + 80.1(t - 15) + 659.8 \text{ ft}$.

—When $t = 20 \text{ s}$, $v(20) = 60.1 \text{ ft/s}$ and $x(20) = 1027.0 \text{ ft}$. Answer

The relationship between speed and time is plotted below.

$v \text{ (ft/s)}$

80

60

30

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