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Chapter 12

12.1

$$y = 0.16t^4 - 4.0t^3 + 0.16t^2$$
$$v = \dot{y} = 0.64t^3 - 12.0t^2 + 0.32t$$
$$a = \dot{v} = 1.92t^2 - 24.0t + 0.32$$

At maximum velocity $a = 0$:

$$1.92t^2 - 24.0t + 0.32 = 0 \quad t = 11.522 \text{ s}$$

$$v_{\max} = 0.64(11.522^3) - 12.0(11.522^2) + 0.32(11.522)$$
$$= 115.868 \text{ ft/s}$$
$$y = 0.16(11.522^4) - 4.0(11.522^3) + 0.16(11.522^2)$$
$$= 8848.0 \text{ ft}$$

12.2

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