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EXAMPLE 12.9

At any instant the horizontal position of the weather balloon in Fig. 12–18a is defined by x = (8t) ft, where t is in seconds. If the equation of the path is $y = x^2/10$, determine the magnitude and direction of the velocity and the acceleration when t = 2 s.

SOLUTION

Velocity. The velocity component in the x direction is

$$v_s = \dot{x} = \frac{d}{dt}(8t) = 8 \text{ ft/s} \rightarrow$$

To find the relationship between the velocity components we will use the chain rule of calculus. When r = 2s, x = 8(2) = 16 ft, Fig. 12–18a, and so

$$v_y = \dot{y} = \frac{d}{dt}(x^2/10) = 2x\dot{x}/10 = 2(16)(8)/10 = 25.6 \text{ ft/s} \uparrow$$

When r = 2 s, the magnitude of velocity is therefore

$$v = \sqrt{(8 \text{ ft/s})^2 + (25.6 \text{ ft/s})^2} = 26.8 \text{ ft/s}$$
 Ans.

The direction is tangent to the path, Fig. 12-18b, where

$$\theta_{\pi} = \tan^{-1} \frac{v_{\pi}}{v_{\pi}} = \tan^{-1} \frac{25.6}{8} = 72.6^{\circ}$$
 Ann.

Acceleration. The relationship between the acceleration components is determined using the chain rule. (See Appendix C.) We have

$$a_s = \dot{v}_s = \frac{d}{dt}(8) = 0$$

 $a_t = \dot{v}_s = \frac{d}{dt}(2x\dot{x}/10) = 2(\dot{x})\dot{x}/10 + 2x(\dot{x})/10$
 $= 2(8)^2/10 + 2(16)(0)/10 = 12.8 \dot{x}/s^2 \uparrow$

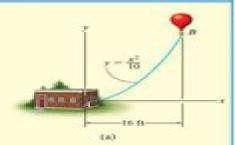
Thurs.

$$a = \sqrt{(0)^2 + (12.8)^2} = 12.8 \text{ ft/s}^2$$
 Area.

The direction of a, as shown in Fig. 12-18c, is

$$\theta_a = \tan^{-1} \frac{12.8}{0} = 90^a$$
 Ann.

NOTE: It is also possible to obtain v_1 and a_2 by first expressing $y = f(t) = (8t)^2/10 = 6.4t^2$ and then taking successive time derivatives.



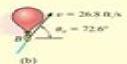




Fig. 12-18

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