

8. A ladder is sliding over two perpendicular surfaces, etc. Find $\frac{dy}{dx}$ when $x = 1$ and $\frac{dx}{dt} = 2$. For the equation, $4x^2 + 9y^2 = 36$.

$$8x = \frac{dx}{dt} + 18y^2 \frac{dy}{dx} + 0$$

$$\frac{dy}{dx} = \frac{-8x}{18y^2}$$

$$8x = 0 - \frac{dy}{dx} + 18(0)^2(2) = 0$$

$$8x \frac{dx}{dx} = \frac{dy}{dx} \cdot 18$$

$$4(1)^2 + 9y^2 = 36$$

$$9y^2 = 32$$

$$y^2 = \frac{32}{9}$$

$$y = \pm \frac{\sqrt{32}}{3}$$

9. Water is falling over a dam, creating a circular area that corresponds to a hole in a dam. How fast is the radius of the water area expanding when the hole is 2.5 feet below the dam? (Assume the hole is 10 feet below the dam.)

$$A = \pi r^2$$

$$10 = 2.5(10) \frac{dr}{dt}$$

$$\frac{dA}{dt} = 2\pi r \frac{dr}{dt}$$

$$\frac{dr}{dt} = \frac{5}{10(10)} \frac{dA}{dt} = 0.005 \text{ m/s}$$

10. A spherical balloon is being inflated. The radius of the balloon is increasing at a rate of $\frac{1}{2}$ inches per second. Find the rate at which the volume is increasing when the radius is 1 foot.

$$V = \frac{4}{3}\pi r^3$$

$$\frac{dV}{dt} = 4\pi r^2 \left(\frac{1}{2}\right)$$

$$\frac{dV}{dt} = 4\pi r^2 \frac{dr}{dt}$$

$$\frac{dV}{dt} = 4 \frac{dV}{dt}$$

11. All edges of a cube are expanding at a rate of 3 centimeters per second. How fast is the volume changing when each edge is 10 centimeters?

$$V = s^3$$

$$\frac{dV}{dt} = 3(s^2)(3)$$

$$\frac{dV}{dt} = 3s^2 \frac{ds}{dt}$$

$$\frac{dV}{dt} = 900 \frac{cm^3}{sec}$$

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