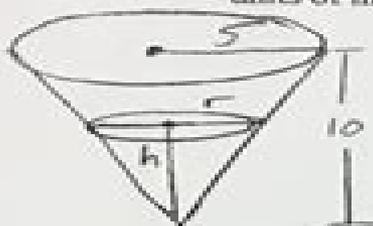


14. A container has the shape of an open right circular cone. The height of the container is 10 cm and the diameter of the opening is 10 cm. Water in the container is evaporating so that its depth h is changing at the constant rate of $-3/10$ cm/hr. Find the rate of change of the volume of water in the container, with respect to time, when $h = 5$ cm. Indicate units of measure.



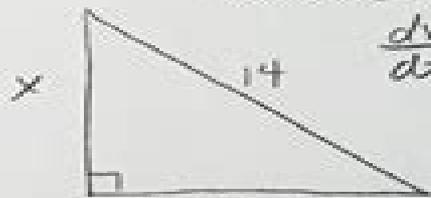
$$\frac{dh}{dt} = -\frac{3}{10} \text{ cm/hr} \quad \text{Find } \frac{dV}{dt} \text{ when } h = 5$$

$$V = \frac{1}{3}\pi r^2 h \Rightarrow V = \frac{1}{3}\pi \left(\frac{1}{2}h\right)^2 h = \frac{\pi}{12} h^3$$

$$\frac{r}{5} = \frac{h}{10} \Rightarrow r = \frac{1}{2}h$$

$$\frac{dV}{dt} = \pi h^2 \frac{dh}{dt} = \frac{\pi(25)}{4} \cdot \frac{-3}{10} = \boxed{-\frac{15\pi}{8} \text{ cm}^3/\text{hr}}$$

15. A 14 ft ladder is leaning against a wall. If the top of the ladder slips down the wall at a rate of 2 ft/s, how fast will the end be moving away from the wall when the top is 6 ft above the ground?



$$\frac{dy}{dt} = -2 \text{ ft/s} \quad \text{Find } \frac{dx}{dt} \text{ when } x = 6$$

$$x^2 + y^2 = 14^2$$

$$2x \frac{dx}{dt} = -2y \frac{dy}{dt}$$

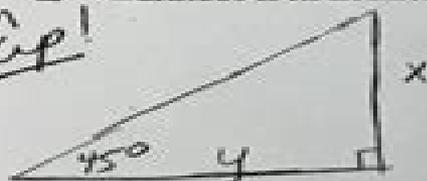
$$12(-2) = -2(4\sqrt{10}) \frac{dx}{dt}$$

$$\frac{-24}{-8\sqrt{10}} = \frac{dx}{dt}$$

$$\boxed{\frac{dx}{dt} = \frac{3}{\sqrt{10}} \text{ ft/s}}$$

16. An aircraft is climbing at a 45° angle to the horizontal. How fast is the aircraft gaining altitude if its horizontal speed is 400 mi/hr?

Can skip!



Find $\frac{dx}{dt}$ if $\frac{dy}{dt} = 400 \text{ mi/hr}$

$$\tan 45 = \frac{x}{y}$$

$$y \tan 45 = x$$

$$\tan 45 \frac{dy}{dt} = \frac{dx}{dt}$$

17. A pebble is dropped into a still pool and sends out a circular ripple whose radius increases at a constant rate of 4 ft/s. How fast is the area of the region enclosed by the ripple increasing at the end of 8 s?

when $t = 8$, $r = 32$

$$\frac{dr}{dt} = 4 \text{ ft/s}$$

$$A = \pi r^2$$

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

$$2\pi(32)(4)$$

$$1 \cdot 400 = \frac{dx}{dt}$$

$$\boxed{400 \text{ mi/hr}}$$

$$\boxed{256\pi \text{ ft}^2/\text{sec}}$$

Since

Review from the book:

Page 168; #50, Page 186; 39, 45, 47, 66 a-d, 79

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IM Harris



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