

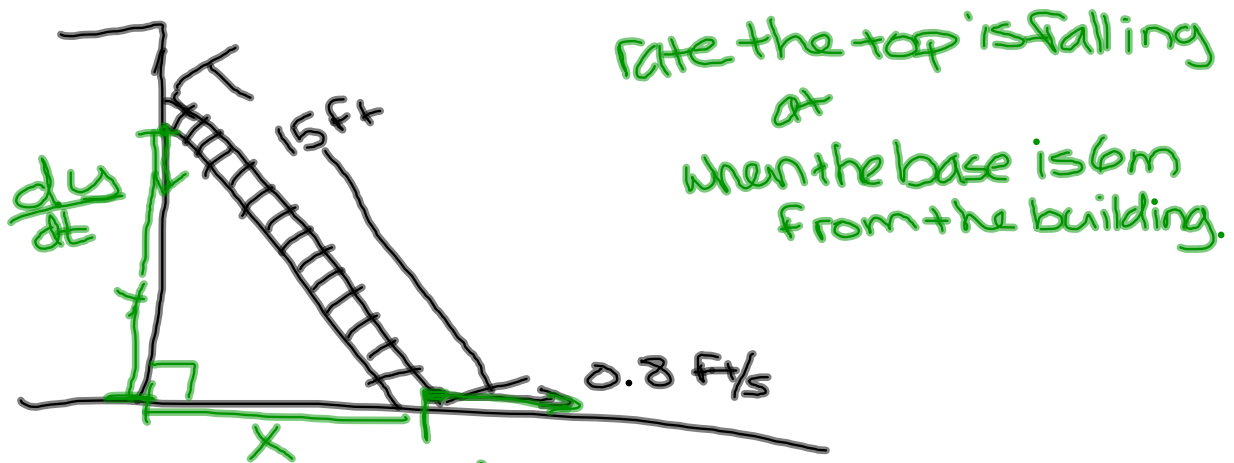
$$A_b = 27\sqrt{3}$$

$$A_c = \pi \cdot 36 = 36\pi$$

$$66.33 \text{ in}^2$$

$$S=2 \quad A_b=4$$

$$r=1 \quad A_c=\pi$$



$$x = 6 \quad \frac{dx}{dt} = 0.8$$

$$x^2 + y^2 = 15^2$$

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

$$y^2 = 15^2 - 6^2$$

$$y = 13.75$$

$$2 \cdot 6 \cdot 0.8 + 2 \cdot 13.75 \frac{dy}{dt} = 0$$

$$\frac{dy}{dt} = -0.35 \frac{\text{ft}}{\text{sec}}$$