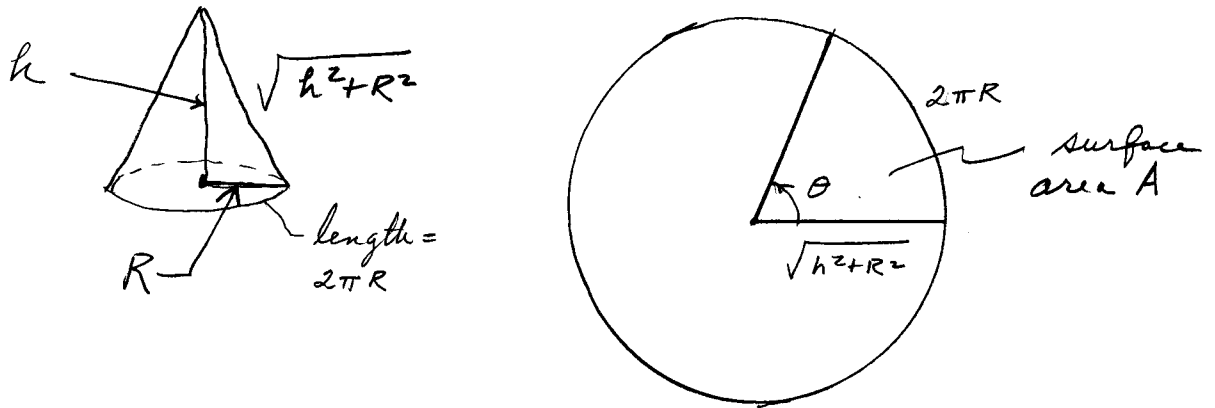


3.3 Surface area of a right-circular cone.



$$\sqrt{h^2 + R^2} \theta = 2\pi R$$

$$\theta = \frac{2\pi R}{\sqrt{h^2 + R^2}}$$

$$A = \frac{\theta}{2\pi} \pi (\sqrt{h^2 + R^2})^2$$

$$A = \frac{1}{2} \frac{2\pi R}{\sqrt{h^2 + R^2}} (\sqrt{h^2 + R^2})^2$$

$$A = \pi R \sqrt{h^2 + R^2}$$