

1. 隐函数求导

$$\begin{aligned}
 2y + \sin(y) &= \frac{x^2}{\pi} + 1 \\
 2 \frac{dy}{dx} + \cos(y) \frac{dy}{dx} &= \frac{2x}{\pi} \\
 \frac{dy}{dx} &= \frac{2x}{\pi(2 + \cos(y))}
 \end{aligned} \tag{1}$$

**常用面积公式

$$\text{球体: } V = \frac{4}{3}\pi r^3 \tag{2}$$

$$\text{圆柱体: } V = \pi r^2 \times h \tag{3}$$

$$\text{圆锥体: } V = \frac{\pi r^2 \times h}{3} \tag{4}$$