

$$1. y = \sqrt{\sin^2 x + x^3}$$

$$2. y = \frac{\tan 2x}{x^2 + 5x}$$

$$3. y = 3x^3 \sqrt[3]{4x+3}$$

$$4. y = \cos^4(3x+1)$$

$$5. y = \frac{2}{x^2} - \frac{x}{8} - x^2\sqrt{x} + \frac{4\sqrt{x}}{x}$$