

$$\textcircled{b} \quad y = \sin 2x$$

$$\frac{dy}{dx} = 2 \cos 2x$$

$$\frac{d^2y}{dx^2} = -4 \sin(2x)$$

$$\frac{d^3y}{dx^3} = -8 \cos(2x)$$

$$\frac{d^4y}{dx^4} = 16 \sin(2x)$$