

$$\textcircled{1} f(x) = x^5 \sqrt[3]{x^4 - 1}$$

$$\textcircled{2} y = \cos^4 7x$$

$$\textcircled{1} f'(x) = 5x^4 (x^4 - 1)^{1/3} + x^5 \left(\frac{1}{3} (x^4 - 1)^{-2/3} (4x^3) \right)$$

$$f'(x) = 5x^4 (x^4 - 1)^{1/3} \frac{(x^4 - 1)^{2/3}}{3(x^4 - 1)^{2/3}} + \frac{4x^8}{3(x^4 - 1)^{2/3}}$$

$$f'(x) = \frac{15x^4 (x^4 - 1) + 4x^8}{3(x^4 - 1)^{2/3}} = \frac{x^4 (15(x^4 - 1) + 4x^4)}{3(x^4 - 1)^{2/3}}$$

$$f'(x) = \frac{x^4 (19x^4 - 15)}{3(x^4 - 1)^{2/3}}$$

$$\textcircled{2} y = (\cos 7x)^4$$

$$y' = 4(\cos 7x)^3 (-\sin 7x)(7)$$

$$y' = -28 \cos^3 7x \sin 7x$$