

$$52. \quad f(x) = \frac{2}{\sqrt[3]{x}} + 3 \cos x = 2x^{-1/3} + 3 \cos x$$

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