Question

-Find the derivative of $f(x) = 8x^2 + 11x$ at $x = 7$.

Solution

$$f'(x) = 16x + 11$$
$$f'(7) = 16 \cdot 7 + 11 = 123$$

Question

-Find the derivative of f(x) = 3x + 8 at x = 4.

Solution

$$f'(x) = 3$$
$$f'(4) = 3$$

Question

-Find the derivative of $f(x) = \dfrac{5}{x}$ at $x = -1$.

Solution

$$f'(x) = -\frac{5}{x^2}$$
$$f'(-1) = -5$$

Question

-Find the derivative of $f(x) = -\dfrac{7}{x}$ at $x = -3$.

Solution

$$f'(x) = \frac{7}{x^2}$$
$$f'(-3) = \frac{7}{9}$$