11. $f(x) = \dfrac{-2x^3 + 4x^2 - 5x + 7}{x}$

$$= -\frac{2x^3}{x} + \frac{4x^2}{x} - \frac{5x}{x} + \frac{7}{x^1}$$

$$= -\frac{2x^2}{1} + \frac{4x^1}{1} - 5 + 7x^{-1}$$

$$= -2x^2 + 4x - 5 + 7x^{-1}$$

$f'(x) = -2 \cdot 2x^1 + 4 + 0 + 7(-1)x^{-2}$

$$= -4x + 4 - 7\underbrace{x^{-2}}$$

$$= -\frac{4x}{1} + \frac{4}{1} - \frac{7}{x^2}$$

$$= \frac{-4x \cdot x^2}{x^2} + \frac{4 \cdot x^2}{x^2} - \frac{7}{x^2}$$

$$= \frac{-4x^3}{x^2} + \frac{4x^2}{x^2} - \frac{7}{x^2}$$

$$= \boxed{\frac{-4x^3 + 4x^2 - 7}{x^2}}$$

12. $y = 5x\left(x^3 - \dfrac{6}{x}\right)$ AT $\overset{X \quad Y}{(2, 50)}$

FIND SLOPE OF GRAPH AT A GIVEN POINT

① FIND DERIVATIVE

$y = 5x^4 - 30$

$y' = 5 \cdot 4x^3$

$y' = 20x^3$

② CHANGE y' TO m AND PLUG IN X PART
OF POINT

$m = 20(2)^3$
$m = 20(8)$ $\longrightarrow$ $m = \boxed{160}$