Sec. 2.3

p.122 - 123: The Product Rule - Theorem 2.7; Examples 1.3

$$\frac{d}{dx}[Y(x)g(x)] = f'(x)g(x) + f(x)g'(x)$$
p.124 - 125: The Quotient Rule - Theorem 2.8; Examples 4 & 5

$$\frac{d}{dx}[Y(x)g(x)] = f'(x)g(x) + f(x)g'(x)$$
p.124 - 125: The Quotient Rule - Theorem 2.8; Examples 4 & 5

$$\frac{d}{dx}[g(x)] = f'(x)g(x) + f(x)g'(x)$$
p.129: Find they derivative of the function.
6. $y = (3x^{2} + 3)(x^{2} + 5)$

$$\frac{d}{dx}[g(x)] = \frac{d}{dx}[f(x)g(x)] = \frac{d}{dx}[f(x)g(x)]$$
p.129: In Exercises 1.7-22, find $f'(x)$ and $f'(x)$
12. $g(x) = \frac{3x^{2} - 1x}{2x^{2} + 5}$

$$\frac{d}{dx}[f(x)g(x)] = f'(x)g(x) + f(x)g(x)$$
p.129: In Exercises 1.7-22, find $f'(x)$ and $f'(x)$
18. $f(x) = (2x^{2} - 3x)(x^{2} + 4)$

$$\frac{d}{dx}[f(x)g(x)] = f'(x)g(x) + f(x)g(x)$$
p.129: In Exercises 1.7-22, find $f'(x)$ and $f'(x)$
18. $f(x) = (2x^{2} - 3x)(x^{2} + 4)$

$$\frac{d}{dx}[f(x)g(x)] = \frac{dx}{2x^{2} + 5}$$

$$\frac{d}{dx}[f(x)g(x)] = f'(x)g(x) + f(x)g(x)$$

$$\frac{d}{dx}[f(x)g(x)] = f'(x)g(x) + f(x)g(x)$$

$$\frac{dx}{dx}[f(x)g(x)] = f'(x)g(x)$$

$$\frac{dx}{dx}[f(x)g(x)] = f'(x)g$$

56. $h(\theta) = 5\theta \sec \theta + \theta \tan \theta$ $\mathcal{K}'(0) = 5Sec0 + 50 Sec0 ton 0 + ten 0 + 0 Secx$

p.130: In Exercises 61–64, find the slope of the graph of the function at the given point.

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62.
$$f(x) = \tan x \cot x = \begin{cases} (1,1) \\ f'(x) = 0 \end{cases}$$

$$f'(x) = \int_{0}^{\infty} \int$$

p.130: In Exercises 75–78, determine the point(s) at which the graph of the function has a horizontal tangent line.

$$\frac{78.7(x) = \frac{x-4}{x^2-7} \frac{f}{g}}{f(x)} = \frac{1(x^2-7)-(x-4)(2x)}{(x^2-7)^2} = \frac{-\chi^2+8\chi-7}{(x^2-7)^2}$$

$$\frac{1}{(x^2-7)^2} + \frac{1}{(x^2-7)^2} = \frac{-\chi^2+8\chi-7}{(x^2-7)^2}$$

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

$$\frac{1}{(x^2-7)^2} + \frac{1}{(x^2-7)^2}$$

$$\frac{1}{$$

p.128: Higher-Order Derivatives; Notations; Example 10

Position function

s(t)

$$v(t) = s'(t)$$

$$a(t) = v'(t) = s''(t)$$
Policity function
$$v(t) = s''(t)$$
Acceleration function
$$v(t) = s''(t)$$

$$v(t) = s''(t)$$
Acceleration function
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