

2.9 The Quotient Rule

Calculus

Solutions

Practice

Find the derivative of each function.

1. $h(x) = \frac{4x-1}{3x+2}$

$$h'(x) = \frac{4(3x+2) - (4x-1)(3)}{(3x+2)^2}$$

$$h'(x) = \frac{12x+8-12x+3}{(3x+2)^2}$$

$$h'(x) = \frac{11}{(3x+2)^2}$$

2. $g(x) = \frac{\cos x}{x}$

$$g'(x) = \frac{\cos x \cdot x - \sin x (1)}{x^2}$$

$$g'(x) = \frac{x \cos x - \sin x}{x^2}$$

3. $h(x) = \frac{x^2+2x^2-x}{2x}$

Simplify first!

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

$$h'(x) = x + 1$$

4. $h(x) = \frac{4x}{\ln x}$

$$h'(x) = \frac{4 \ln x - 4x(1/x)}{(\ln x)^2}$$

$$h'(x) = \frac{4 \ln x - 4}{(\ln x)^2}$$

5. $f(x) = \frac{3x^3-2x^2-3x^{1/2}}{x^2}$

Simplify first!

$$f(x) = 3x^3 - 2x - 3x^{-1/2}$$

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

6. $g(x) = \frac{2x^5}{\cos x}$

$$g'(x) = \frac{10x^4 \cos x - 2x^5(-\sin x)}{\cos^2 x}$$

$$g'(x) = \frac{10x^4 \cos x + 2x^5 \sin x}{\cos^2 x}$$

Done, but can you see this more as well?

$$g'(x) = 10x^4 \sec x + 2x^5 \tan x \sec x$$

7. $f(x) = \frac{e^x}{4 \sin x}$

$$f'(x) = \frac{e^x 4 \sin x - e^x 4 \cos x}{16 \sin^2 x}$$

One way of simplifying:

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

8. $f(x) = \frac{2x+4}{3x+2}$

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

$$f'(x) = \frac{6x+4-6x-12}{(3x+2)^2}$$

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

9. $g(x) = \frac{x^2+3x^2-x}{x^2}$

Simplify first!

$$g(x) = x + 3 - x^{-1}$$

$$g'(x) = 1 + \frac{1}{x^2}$$

Use the table to find the value of the derivatives of each function.

10.

x	$f(x)$	$f'(x)$	$g(x)$	$g'(x)$
7	-5	3	2	-3

a. $h(t) = \frac{2f(t)}{g'(t)}$
Find $h'(7)$.

$$h'(t) = \frac{5f'(t)g - 5fg'(t)}{4}$$

$$h'(7) = \frac{5(3)(2) - 5(-5)(-3)}{4}$$

$$h'(7) = \frac{30 - 75}{4} = -\frac{45}{4}$$

b. $m(x) = \frac{g(x)+2}{3f(x)}$
Find $m'(7)$.

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

$$m'(7) = \frac{(-3)(3)(-5) - (2+2)3(3)}{9(25)}$$

$$m'(7) = \frac{45 - 36}{225} = \frac{9}{225} = \frac{1}{25}$$

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Differentiation Rules

Camilla Rothe



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