

Differentiation Tables

Use the shared table to apply derivative rules and find each exact derivative value.

Each row gives function and derivative values at the displayed input. f and g are differentiable at every required input.

input	f	f'	g	g'
-5	5	4	4	6
-4	-9	0	2	-6
-1	-1	-4	-5	0
0	0	4	-1	1
2	7	2	0	-5
4	6	-3	-4	3

1.
$$h(x) = (f(x))^2$$

Find $h'(0)$.

2.
$$h(x) = (f(x))^2$$

Find $h'(-5)$.

3.
$$h(x) = (f(x))/(g(x))$$

Find $h'(0)$.

4.
$$h(x) = f(g(x))$$

Find $h'(-1)$.

5.
$$h(x) = -3f(x) + 5g(x)$$

Find $h'(-1)$.

6.
$$h(x) = f(x) - g(x)$$

Find $h'(-5)$.

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7.
$$h(x) = (5f(x))(-3g(x))$$

Find $h'(-1)$.

8.
$$h(x) = (f(x))(g(x))$$

Find $h'(2)$.

9.
$$h(x) = -3f(x) + 4g(x)$$

Find $h'(-4)$.

10.
$$h(x) = f(g(x))$$

Find $h'(0)$.

11.
$$h(x) = f(x) + g(x)$$

Find $h'(4)$.

12.
$$h(x) = (5f(x))/(-4g(x))$$

Find $h'(-4)$.