

Given  $f(x)$  and  $g(x)$  are differentiable...

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

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Find the derivative of the following functions.

$$h(x) = (2x^2 - 5x)(4x - 1)$$

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

Find the derivative of the following functions.

$$h(x) = (x^3 + 3x)(x^2 + 3)$$

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

Find the derivative of the following functions.

$$h(x) = 3x^3 \sin x$$

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

Find the derivative of the following functions.

$$h(x) = \sqrt{x} \cos x$$

Given  $f(x)$ ,  $g(x)$  and  $h(x)$  are differentiable...

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

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

Find the derivative of the following functions.

$$p(x) = x^2 \sin x \cos x$$