



Basic Derivatives - Positive Integer Power with Coefficient to Derivative

1 Find the derivative $f'(x)$ using the power rule.

$$f(x) = -6x^6$$

A $f'(x) = -36x^7$

B $f'(x) = -36x^5$

C $f'(x) = -36x^6$

D $f'(x) = -6x^5$

2 Find the derivative $f'(x)$ using the power rule.

$$f(x) = -2x^6$$

A $f'(x) = -2x^5$

B $f'(x) = -12x^5$

C $f'(x) = -12x^6$

D $f'(x) = -12x^7$

3 Find the derivative $f'(x)$ using the power rule.

$$f(x) = 8x^2$$

A $f'(x) = 8x$

B $f'(x) = 16x^3$

C $f'(x) = 16x^2$

D $f'(x) = 16x$

4 Find the derivative $f'(x)$ using the power rule.

$$f(x) = 5x^5$$

A $f'(x) = 5x^4$

B $f'(x) = 25x^5$

C $f'(x) = 25x^6$

D $f'(x) = 25x^4$

5 Find the derivative $f'(x)$ using the power rule.

$$f(x) = 8x^4$$

A $f'(x) = 8x^3$

B $f'(x) = 32x^4$

C $f'(x) = 32x^5$

D $f'(x) = 32x^3$

6 Find the derivative $f'(x)$ using the power rule.

$$f(x) = 2x^4$$

A $f'(x) = 2x^3$

B $f'(x) = 8x^4$

C $f'(x) = 8x^5$

D $f'(x) = 8x^3$

7 Find the derivative $f'(x)$ using the power rule.

$$f(x) = 5x^3$$

A $f'(x) = 5x^2$

B $f'(x) = 15x^4$

C $f'(x) = 15x^3$

D $f'(x) = 15x^2$

8 Find the derivative $f'(x)$ using the power rule.

$$f(x) = -9x^3$$

A $f'(x) = -27x^2$

B $f'(x) = -27x^3$

C $f'(x) = -9x^2$

D $f'(x) = -27x^4$