Derivatives: The Power Rule · 1

Find f'(x) for f(x) = $4x^5 - x^3$.

Derivatives: The Power Rule · 2

Find f'(x) for f(x) = $2x^5 + 2x^3$.

Derivatives: The Power Rule · 3

f(x) = $7x^5 + 7x^4 + 1$. Find f'(1).

Derivatives: The Power Rule · 4

Find f'(x) for f(x) = $8x^5 + 3x^3$.

Derivatives: The Power Rule · 5

Find f'(x) for f(x) = $x^5 + 9x^4 - x$.

Derivatives: The Power Rule · 6

f(x) = $8x^5 - 6x^3 - 8$. Find f'(3).

Derivatives: The Power Rule · 7

Find f'(x) for f(x) = $-7x^5 - 8x^4 - 3$.

Derivatives: The Power Rule · 8

Find f'(x) for f(x) = $6x^5 + 6$.

Derivatives: The Power Rule · 2

**ANSWER**

$10x^4 + 6x^2$

Derivatives: The Power Rule · 1

**ANSWER**

$20x^4 - 3x^2$

Derivatives: The Power Rule · 4

**ANSWER**

$40x^4 + 9x^2$

Derivatives: The Power Rule · 3

**ANSWER**

$63$

Derivatives: The Power Rule · 6

**ANSWER**

$3078$

Derivatives: The Power Rule · 5

**ANSWER**

$5x^4 + 36x^3 - 1$

Derivatives: The Power Rule · 8

**ANSWER**

$30x^4$

Derivatives: The Power Rule · 7

**ANSWER**

$-35x^4 - 32x^3$

Find f'(x) for f(x) = $6x^5 + x^4$.



Find f'(x) for f(x) = $4x^5 + x^3 + 7x^2$.



$f(x) = -9x^5 - 3x^4$. Find f'(-1).



Find f'(x) for f(x) = $-5x^5 - 4x^4 - 3x^2$.



Find f'(x) for f(x) = $-x^5 - 5x^4 + x$.



$f(x) = 4x^5 + 5x + 2$. Find f'(-2).



Find f'(x) for f(x) = $6x^5 + 9x^2 - 8$.



Find f'(x) for f(x) = $-8x^5 - 2x^2$.

Derivatives: The Power Rule · 10

**ANSWER**

$20x^4 + 3x^2 + 14x$

Derivatives: The Power Rule · 9

**ANSWER**

$30x^4 + 4x^3$

Derivatives: The Power Rule · 12

**ANSWER**

$-25x^4 - 16x^3 - 6x$

Derivatives: The Power Rule · 11

**ANSWER**

$-33$

Derivatives: The Power Rule · 14

**ANSWER**

$325$

Derivatives: The Power Rule · 13

**ANSWER**

$-5x^4 - 20x^3 + 1$

Derivatives: The Power Rule · 16

**ANSWER**

$-40x^4 - 4x$

Derivatives: The Power Rule · 15

**ANSWER**

$30x^4 + 18x$

Derivatives: The Power Rule · 17

Find f'(x) for f(x) = $-9x^5 + 8x^3 - 6x$.

Derivatives: The Power Rule · 18

Find f'(x) for f(x) = $-9x^5 + 9x^3 + 6$.

Derivatives: The Power Rule · 19

$f(x) = 6x^5 - 5x^3 - 8$. Find f'(0).

Derivatives: The Power Rule · 20

Find f'(x) for f(x) = $-7x^5 - 4x^4 - 6x^3$.

Derivatives: The Power Rule · 21

Find f'(x) for f(x) = $4x^5 - 6x^4 + 5x^2$.

Derivatives: The Power Rule · 22

$f(x) = -6x^5 + 2x^3$. Find f'(0).

Derivatives: The Power Rule · 23

Find f'(x) for f(x) = $7x^5 + 6x^3 + 9x^2 - 8$.

Derivatives: The Power Rule · 24

Find f'(x) for f(x) = $-6x^5 - x^4 + 6x^2 + 6x$.

Derivatives: The Power Rule · 18

**ANSWER**

$-45x^4 + 27x^2$

Derivatives: The Power Rule · 17

**ANSWER**

$-45x^4 + 24x^2 - 6$

Derivatives: The Power Rule · 20

**ANSWER**

$-35x^4 - 16x^3 - 18x^2$

Derivatives: The Power Rule · 19

**ANSWER**

$0$

Derivatives: The Power Rule · 22

**ANSWER**

$0$

Derivatives: The Power Rule · 21

**ANSWER**

$20x^4 - 24x^3 + 10x$

Derivatives: The Power Rule · 24

**ANSWER**

$-30x^4 - 4x^3 + 12x + 6$

Derivatives: The Power Rule · 23

**ANSWER**

$35x^4 + 18x^2 + 18x$