Derivatives: The Power Rule · 1

Find f'(x) for f(x) = x^5.

Derivatives: The Power Rule · 2

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

Derivatives: The Power Rule · 3

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

Derivatives: The Power Rule · 4

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

Derivatives: The Power Rule · 5

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

Derivatives: The Power Rule · 6

Find f'(x) for f(x) = $6x^3$.

Derivatives: The Power Rule · 7

Find f'(x) for f(x) = $-9x^2$.

Derivatives: The Power Rule · 8

Find f'(x) for f(x) = $8x^4$.

Derivatives: The Power Rule · 2

ANSWER

$-24x^3$

Derivatives: The Power Rule · 1

ANSWER

$5x^4$

Derivatives: The Power Rule · 4

ANSWER

$-12x^5$

Derivatives: The Power Rule · 3

ANSWER

$-16x$

Derivatives: The Power Rule · 6

ANSWER

$18x^2$

Derivatives: The Power Rule · 5

ANSWER

$-15x^2$

Derivatives: The Power Rule · 8

ANSWER

$32x^3$

Derivatives: The Power Rule · 7

ANSWER

$-18x$

Derivatives: The Power Rule · 9

Find f'(x) for f(x) = $6x^3 - 2x$.

Derivatives: The Power Rule · 10

f(x) = $-6x^3$. Find f'(1).

Derivatives: The Power Rule · 11

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

Derivatives: The Power Rule · 12

Find f'(x) for f(x) = $-5x^3 + 1$.

Derivatives: The Power Rule · 13

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

Derivatives: The Power Rule · 14

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

Derivatives: The Power Rule · 15

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

Derivatives: The Power Rule · 16

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

Derivatives: The Power Rule · 10

ANSWER

-18

Derivatives: The Power Rule · 9

ANSWER

$18x^2 - 2$

Derivatives: The Power Rule · 12

ANSWER

$-15x^2$

Derivatives: The Power Rule · 11

ANSWER

$-3x^2 + 6x$

Derivatives: The Power Rule · 14

ANSWER

$-15x^2$

Derivatives: The Power Rule · 13

ANSWER

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Derivatives: The Power Rule · 16

ANSWER

$8x^3 - 12x^2$

Derivatives: The Power Rule · 15

ANSWER

$-12x^2$

Derivatives: The Power Rule · 17

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

Derivatives: The Power Rule · 18

$f(x) = -5x^4 - 6x^2$. Find f'(3).

Derivatives: The Power Rule · 19

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

Derivatives: The Power Rule · 20

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

Derivatives: The Power Rule · 21

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

Derivatives: The Power Rule · 22

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

Derivatives: The Power Rule · 23

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

Derivatives: The Power Rule · 24

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

Derivatives: The Power Rule · 18

ANSWER

-576

Derivatives: The Power Rule · 17

ANSWER

$-8x^3 + 6$

Derivatives: The Power Rule · 20

ANSWER

$12x^3$

Derivatives: The Power Rule · 19

ANSWER

$20x^3$

Derivatives: The Power Rule · 22

ANSWER

$-4x^3$

Derivatives: The Power Rule · 21

ANSWER

-76

Derivatives: The Power Rule · 24

ANSWER

$-18x^2$

Derivatives: The Power Rule · 23

ANSWER

$8x^3 + 2$