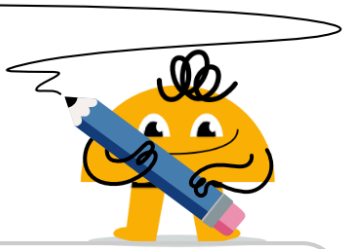
Name



Basic Derivatives - Positive Integer Power (with Rule) to Derivative

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

if $f(x) = x^n,\ f'(x) = n\,x^{n-1}$

$f(x) = x^4$

A	$f'(x) = 4x^4$	B	$f'(x) = 4x^5$
C	$f'(x) = x^3$	D	$f'(x) = 4x^3$

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

if $f(x) = x^n,\ f'(x) = n\,x^{n-1}$

$f(x) = x^5$

A	$f'(x) = 5x^5$	B	$f'(x) = x^4$
C	$f'(x) = 5x^4$	D	$f'(x) = 5x^6$

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

if $f(x) = x^n,\ f'(x) = n\,x^{n-1}$

$f(x) = x^3$

A	$f'(x) = 3x^4$	B	$f'(x) = x^2$
C	$f'(x) = 3x^2$	D	$f'(x) = 3x^3$

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

if $f(x) = x^n,\ f'(x) = n\,x^{n-1}$

$f(x) = x^6$

A	$f'(x) = x^5$	B	$f'(x) = 6x^5$
C	$f'(x) = 6x^6$	D	$f'(x) = 6x^7$

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

if $f(x) = x^n,\ f'(x) = n\,x^{n-1}$

$f(x) = x^2$

A	$f'(x) = 2x^3$	B	$f'(x) = x$
C	$f'(x) = 2x^2$	D	$f'(x) = 2x$