

I'm not robot!

$y = x^2 \Rightarrow \frac{dy}{dx} = 2x$
 $y = x^3 \Rightarrow \frac{dy}{dx} = 3x^2$
 $y = x^4 \Rightarrow \frac{dy}{dx} = 4x^3$
 $y = x^5 \Rightarrow \frac{dy}{dx} = 5x^4$
 $y = x^6 \Rightarrow \frac{dy}{dx} = 6x^5$
 $y = x^7 \Rightarrow \frac{dy}{dx} = 7x^6$
 $y = x^8 \Rightarrow \frac{dy}{dx} = 8x^7$
 $y = x^9 \Rightarrow \frac{dy}{dx} = 9x^8$
 $y = x^{10} \Rightarrow \frac{dy}{dx} = 10x^9$
 $y = x^{11} \Rightarrow \frac{dy}{dx} = 11x^{10}$
 $y = x^{12} \Rightarrow \frac{dy}{dx} = 12x^{11}$
 $y = x^{13} \Rightarrow \frac{dy}{dx} = 13x^{12}$
 $y = x^{14} \Rightarrow \frac{dy}{dx} = 14x^{13}$
 $y = x^{15} \Rightarrow \frac{dy}{dx} = 15x^{14}$

$y = x^{-1} \Rightarrow \frac{dy}{dx} = -x^{-2} = -\frac{1}{x^2}$
 $y = x^{-2} \Rightarrow \frac{dy}{dx} = -2x^{-3} = -\frac{2}{x^3}$
 $y = x^{-3} \Rightarrow \frac{dy}{dx} = -3x^{-4} = -\frac{3}{x^4}$
 $y = x^{-4} \Rightarrow \frac{dy}{dx} = -4x^{-5} = -\frac{4}{x^5}$
 $y = x^{-5} \Rightarrow \frac{dy}{dx} = -5x^{-6} = -\frac{5}{x^6}$
 $y = x^{-6} \Rightarrow \frac{dy}{dx} = -6x^{-7} = -\frac{6}{x^7}$
 $y = x^{-7} \Rightarrow \frac{dy}{dx} = -7x^{-8} = -\frac{7}{x^8}$
 $y = x^{-8} \Rightarrow \frac{dy}{dx} = -8x^{-9} = -\frac{8}{x^9}$
 $y = x^{-9} \Rightarrow \frac{dy}{dx} = -9x^{-10} = -\frac{9}{x^{10}}$
 $y = x^{-10} \Rightarrow \frac{dy}{dx} = -10x^{-11} = -\frac{10}{x^{11}}$
 $y = x^{-11} \Rightarrow \frac{dy}{dx} = -11x^{-12} = -\frac{11}{x^{12}}$
 $y = x^{-12} \Rightarrow \frac{dy}{dx} = -12x^{-13} = -\frac{12}{x^{13}}$
 $y = x^{-13} \Rightarrow \frac{dy}{dx} = -13x^{-14} = -\frac{13}{x^{14}}$
 $y = x^{-14} \Rightarrow \frac{dy}{dx} = -14x^{-15} = -\frac{14}{x^{15}}$
 $y = x^{-15} \Rightarrow \frac{dy}{dx} = -15x^{-16} = -\frac{15}{x^{16}}$

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Calculus Problems: Differentiation of Functions 11

Find the derivative of the function

1. $y = 4x^2 - 3x + 5$
 $\frac{dy}{dx} = 8x - 3$
 $y = 7x^3 - 2x^2 + 1$
 $\frac{dy}{dx} = 21x^2 - 4x$

2. $y = \sin(x)$
 $\frac{dy}{dx} = \cos(x)$
 $y = \cos(x)$
 $\frac{dy}{dx} = -\sin(x)$

3. $y = e^{2x}$
 $\frac{dy}{dx} = 2e^{2x}$
 $y = e^{-3x}$
 $\frac{dy}{dx} = -3e^{-3x}$

4. $y = \ln(x)$
 $\frac{dy}{dx} = \frac{1}{x}$
 $y = \ln(x^2)$
 $\frac{dy}{dx} = \frac{2}{x}$

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Name : _____ Score : _____
Teacher : _____ Date : _____

Product Rule

Differentiate each function with respect to the given variable, by using the power rule.

1) $y = (-2x^3 + 4)(2x^3 + 7x^3)$

2) $y = (-4x^3 + x^2 - 2x^3)(-3x^3 + 7x^2 + 4x)$

3) $y = (-4x^5)(6x)$

4) $y = (6x^5)(-x^2 + 4x^3)$

5) $y = (3x^3)(-7x)$

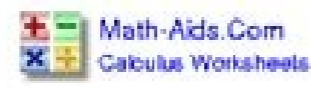
6) $y = (3x^2 \cdot x + 4)(5x^3)$

7) $y = (-7x^3)(5x)$

8) $y = (-2x^4 + 5x^3 + 2)(-3x^3 - 4x)$

9) $y = (-6x^2 \cdot x^4 + 6x^3)(7x^3)$

10) $y = (-2x^3 + 2x + 5)(-3x^3 - 8x)$



Name: _____

Score: _____

Power Rule

Use power rule and simplify. Write your answers in positive exponents.

1) $(y^{-7})^{-8}$

2) $(b^9)^{-8}$

3) $(u^{-9})^8$

4) $(c^4)^8$

5) $(u^{-8})^{-9}$

6) $(s^9)^{-7}$

7) $(k^8)^2$

8) $(r^{-4})^{10}$

9) $(w^{-8})^{-9}$

10) $(p^{-8})^8$

11) $(z^9)^{-10}$

12) $(s^{10})^2$

13) $(m^7)^{-8}$

14) $(a^{10})^4$

15) $(h^7)^{10}$

16) $(g^8)^{-8}$

17) $(d^{-10})^{-7}$

18) $(q^{-8})^8$

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