



Problem Set 17: Logarithmic Differentiation

Find the derivative using logarithmic differentiation.

1. $y = x^{x-1}$

2. $y = (x + 1)^x$

AP Calculus AB – Unit 3

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Learn by Doing

3. $y = x^{x^4}$

4. $y = \frac{(5x + 6)(x - 3)}{(8x - 2)}$

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5. $y = \frac{(3x - 1)^5(2x + 1)}{(4x + 7)^2}$