

Name: \_\_\_\_\_

Unit 6: Exponents & Exponential Functions



Date: \_\_\_\_\_

Bell: \_\_\_\_\_

Homework 4: Negative Exponents

**Directions:** Simplify the following monomials. Your answer should contain positive exponents only!

1.  $x^{-7}$   
 $\frac{1}{x^7}$

2.  $5x^2y^{-3}$   
 $\frac{5x^2}{y^3}$

3.  $-4a^{-2}b^{-2}$   
 $-\frac{4}{a^2b^2}$

4.  $(ab^2)^{-4}$   
 $a^{-4}b^{-8}$   
 $= \frac{1}{a^4b^8}$

5.  $-8(x^{-3}y^4)^{-5}$   
 $-8x^{15}y^{-20}$   
 $= \frac{-8x^{15}}{y^{20}}$

6.  $(3x)^{-3}$   
 $\frac{1}{27}x^{-3}$   
 $= \frac{1}{27x^3}$

7.  $(a^2)(a^{-3})$   
 $a^{-5}$   
 $= \frac{1}{a^5}$

8.  $(x^{-2})^{-3}(-2y^5)^{-4}$   
 $x^{-9} \cdot 16y^{20}$   
 $= \frac{16y^{20}}{x^9}$

9.  $(a^2b^3)^{-2}(a^5b^4)^{-3}$   
 $a^{-4}b^{-6} \cdot a^{-15}b^{-12}$   
 $= \frac{1}{a^{19}b^{18}}$

10.  $(2x^4)^{-5}$   
 $\frac{1}{32x^{20}}$

11.  $(-11x^2)^{-2}$   
 $\frac{1}{121x^4}$

12.  $(x^3y^6)^{-2} + (x^2y^4)^{-3}$   
 $x^{-6}y^{-12} + x^{-6}y^{-12}$   
 $= \frac{2}{x^6y^{12}}$

13.  $(-3x^2)^{-4}$   
 $\frac{1}{81x^8}$

14.  $(-2x^3)^{-5}$   
 $-\frac{1}{32x^{15}}$

15.  $(-2x^3)^{-2} - 3x^{-5}$   
 $\frac{1}{4x^6} - \frac{3}{x^5}$

16.  $(-2x^3)^{-2} - 3x^{-5}$   
 $\frac{1}{4x^6} - \frac{3}{x^5}$

17.  $(-2x^3)^{-2} - 3x^{-5}$   
 $\frac{1}{4x^6} - \frac{3}{x^5}$

18.  $(-2x^3)^{-2} - 3x^{-5}$   
 $\frac{1}{4x^6} - \frac{3}{x^5}$

19.  $(-2x^3)^{-2} - 3x^{-5}$   
 $\frac{1}{4x^6} - \frac{3}{x^5}$

20.  $(-2x^3)^{-2} - 3x^{-5}$   
 $\frac{1}{4x^6} - \frac{3}{x^5}$

21.  $(-2x^3)^{-2} - 3x^{-5}$   
 $\frac{1}{4x^6} - \frac{3}{x^5}$

# Exponential Functions Answer Key

**Edward Thomas Dowling**



## **Exponential Functions Answer Key:**

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*Schaum's Outline of Theory and Problems of Mathematical Methods for Business and Economics* Edward Thomas Dowling, 1993 Presents the mathematical tools and techniques essential for success in business and economics Suitable for a one or two semester course in business maths this guide also supplements introductory calculus or linear algebra courses for students interested in the business applications It also deals with linear programming and integral calculus

***Student's Solutions Manual, Algebra for College Students, Second Edition, Lial/Miller/Hornsby***, 1992

*Applied Technical Mathematics with Calculus* Merwin J. Lyng, L. J. Meconi, Earl J. Zwick, 1992

***Schaum's Outline of Mathematical Methods for Business, Economics and Finance, Second Edition*** Luis Moises Pena-Levano, 2021-11-15 The most useful tool for reviewing mathematical methods for business and economics classes now with more content Schaum's Outline of Mathematical Methods for Business Economics and Finance Second Edition is the go to study guide for students enrolled in business and economics courses that require a variety of mathematical skills No mathematical proficiency beyond the high school level is assumed enabling students to progress at their own rate and adapt the book to their own needs With an outline format that facilitates quick and easy review this guide helps you understand basic concepts and get the extra

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