

Chapter 5 Polygons and Exponents

Name _____

Day	Topic	Assignment	Worksheet/Quiz
1.	5.1 Exponent Laws	P295 #6-90 (Div 6)	
2.	5.1 Scientific Notation	P295 #96-114 (Div 6)	W/S 5.1 Quiz 1
3.	5.2 Add and Subtract Polynomials	P302 Problems 1, 2, 3, 4, 6, 7 P308 #5, 6, 19, 21, 31, 34, 39, 41	examples in class
4.	5.3 Multiply Polynomials	P316 #7-105 (Div 7)	
	Application	P319 #116-124 (Div 4)	W/S 5.2-5.3
5.	5.4 Division of Polynomials	P327 #4-16 (Div 4), 25, 27, 37, 101, 102, 103	Quiz 2
6.	5.5 Factoring Polynomials	P341 #5-45 (Div 5), 65-85 (Div 5), 95-115 (Div 5)	W/S 5.4-5.5
7.	5.6 Special Factoring	P350 #12-42 (Div 6), 60-66 all, 106, 108	
8.	5.7 Solving Equations by Factoring	P359 #7-63 (Div 7)	W/S 5.6-5.7 Quiz 3
9.	Review	P366 #1-12, 14, 16, 25, 27, 30-36, 51* P368 #1-20, 2	
10.	TEST		Chapter 5 Test

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Score _____

Simplify.

1. $(a^2b)(a^2b^3)$

7. $(2^2a^4b^2)^3$

16. $(a^n)^{3n}$

21. $(-3x^3y^2z)(6xy^2z^3)$

Chapter 5 Additional Objective 5.1.2 Exercises

Simplify.

1. 2^{-5}

7. $\frac{x^3}{x^{-2}}$

8. $\frac{x^{-5}}{x^{-6}}$

13. $\frac{60a^9}{20a^6}$

14. $\frac{-4x^4y}{16x^2y^3}$

22. $\frac{(3xy^2)^2}{(6x^2y)^3}$

23. $\frac{(-2x^2y)^4}{(-4x^3y)^3}$

2. $(-3x^2y^2)(-4x^2y^3)$

8. $(x^2y)(xy)^3$

17. $(a^{n-2})^{3n}$

22. $(4x^2yz)(-3x^2y^2z)(-5x^4z^2)$

Chapter 5 Additional Objective 5.1.2 Exercises

Simplify.

1. xy^{-3}

9. $\frac{2a^{-2}}{2^{-3}a^3}$

15. $\frac{a^3b^2c^6}{a^5bc^4}$

24. $\frac{a^{5n}}{a^{6n}}$

24. _____

23. _____

22. _____

15. _____

14. _____

13. _____

9. _____

8. _____

7. _____

3. _____

2. _____

1. _____

Name _____

Score _____

Write in scientific notation.

1. 0.0000356 2. 320,000 3. 0.00000037

1. _____

2. _____

3. _____

10. _____

11. _____

12. _____

Simplify.

13. $(4 \times 10^{-10})(7 \times 10^7)$ 14. $(7.8 \times 10^{-4})(2.1 \times 10^{-5})$

13. _____

14. _____

19. $\frac{8 \times 10^{-2}}{2 \times 10^7}$

20. $\frac{2.8 \times 10^5}{4 \times 10^{-3}}$

21. $\frac{0.00072}{40,000,000}$

19. _____

20. _____

21. _____

Evaluate.

1. Given $P(x) = 4x^3 - 3x^2 + 6$, evaluate $P(-3)$.

2. Given $P(x) = 4x^3 - 3x^2 + 6$, evaluate $P(-3)$.

1. _____

2. _____

Indicate which define a polynomial function. For those that are polynomial functions: a. Identify the leading coefficient. b. Identify the constant term. c. State the degree.

3. $P(x) = 6x^4 - 2x + 7$

4. $R(x) = \frac{x}{x^2 + 2x + 1}$

3. a. _____

b. _____

c. _____

4. a. _____

b. _____

c. _____