

Honors Algebra 2 - Summer Review Assignment

Name _____

This assignment should serve as a review of the algebra skills necessary for success in Algebra 2 with Analysis. Our hope is that this review will keep your mind mathematically active during the summer, identify weaknesses in algebra, if they exist, and prepare you for the fun and challenging year ahead. We expect that you come to class knowing this material and ready to continue learning algebra. **Answer all questions on separate paper. SHOW ALL WORK.** This assignment will be collected on the **first day of school**. Enjoy your summer. See you in September ready to learn!!!!



I. Evaluate/Simplify.

1. $-3 - \frac{6}{2} = 12$

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

3. $-4^2 + 8^2$

4. $2x^3 - 3x^2 + 5x$ when $x = -3$

5. $3ab^2 + 5a^2b - 1$ when $a = 2$ and $b = -2$

6. $\frac{1}{2} + \frac{3}{2} + \frac{5}{2}$

7. $\frac{2}{3} + \frac{1}{2} - \frac{3}{5}$

8.

9. $\frac{2}{2} + 3\frac{2}{3} + 1\frac{1}{5}$

10. $\frac{3}{5} \times \frac{2}{3}$

11. $\frac{1}{2} \div \frac{3}{5}$

12. $\frac{2}{3} \times \frac{1}{8} + \frac{3}{5}$

II. Simplify by adding, subtracting, multiplying or dividing.

1. $(3x + 2) + (-4x + 3)$

2. $(-6x + 2) + (x^2 + x - 3)$

3. $(6x + 1) - (-7x + 2)$

4. $(x^2 - 5x + 4) - (8x - 9)$

5. $-3x(x - 1)$

6. $(1.2x^3 + 4.5x^2 - 3.8x) +$

7. $(0.5x^4 - 0.6x^2 + 0.7) -$

8. $(2.3x^4 + 1.8x - 3.9)$

9. $-4x(2x^3 - 6x^2 - 5x + 1)$

10. $(x + 5)(x - 2)$

11. $(x^2 + x^2 + x + 1)(x - 1)$

12. $(3 - 2x)^2$

13. $(x^2 - 5)^2$

14. $(x + 5)^3$

15. $(3x + 2)(4x^2 + 5)$

16. $(25r^3 + 15r^2 - 30r) + (5r)$

17. $(24r^6 + 32r^5 - 8r^2) + (-8r^2)$

18. $\frac{24x^5 - 4x^3 + 10x^2 - 16}{8}$

19. $\frac{u - 2u^2 - u^5}{u}$

20. $\frac{50x^5 - 7x^4 + x^2}{x}$

III. Solve the systems of equations by the indicated method.

1. linear combination

$5x + 4y = 6$

$-2x - 3y = -1$

2. substitution

$-2x + y = 8$

$y = -3x - 2$

3. graphing

$3x - 2y = 5$

$-6x + 4y = 7$

4. any method

$-x + 2y = 11$

$3x - 2y = -13$

IV. Solve the linear equations

1. $-4(3 - x) = 2(x + 6)$

2. $3x + 2(x + 1) = 0$

3. $8x - 1.5 = 3x$

4. $\frac{1}{3}(6x + 24) - 20 = -\frac{1}{4}(12x - 72)$

5. $\frac{x}{5} - 3 = 2$

6. $\frac{1}{2}x - 4 = 2 - (3 - x)$

7. $2(3x + 6) + 8 = 6x$

8. $a + (a - 3) = (a + 2) - (a + 1)$

V. Factor completely

1. $x^2 - x - 72$

2. $2a^2 - 11a + 15$

3. $10x^4 - 15x^3$

4. $9x^2 - 64$

5. $x^2 + 11x + 28$

6. $x^2 - 72 + 6x$

VI. Solve the quadratic equations

1. $x^2 + 10x - 9 = 0$

2. $x^2 + 6x = 0$

3. $x^2 - 3x = 10$

4. $5x^2 = 7x$

5. $(2x + 1)(x + 3) = 0$

6. $x^2 = 4x + 32$

7. $2x^2 - 3x - 2 = 0$

8. $x^2 = 16$

9. $x^2 + 5x - 1 = 0$

VII. Write equations for the lines satisfying the given conditions

1. through $(0, -1)$ with slope $= -1$

2. through $(-2, 3)$ with slope $= \frac{4}{3}$

3. through $(3, -1)$ with zero slope

4. vertical, through $(5, 4)$

5. through $(2, 3)$ and $(7, -2)$

6. through $(3, 4)$ and $(-2, 4)$

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Zhe Xu



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