Algebra Quizzes

- 1. Simplify the expression: $4x^2 + 6x 3x^2 + 8 2x$
- 2. Solve the equation: 2(3x 4) = 5x + 6
- 3. Factor the expression: $2x^2 + 8x + 6$
- 4. Solve the inequality: 3x 2 > 7
- 5. Simplify the expression: $(2x^3 5x^2 + 3x) + (3x^2 4x + 1)$
- 6. Solve the equation system: 4x + 2y = 8 and 2x y = 4
- 7. Factor the expression: $x^2 + 5x + 6$
- 8. Simplify the expression: 2(x 1) + 3(x + 2) 4(x 3)
- 9. Solve the inequality: $3(2x 5) \le 4x + 3$
- 10. Solve the equation: 5(2x 1) = 6(x 2) 3
- 1. What is the solution to the equation 4x + 5 = 17? a) x = 12b) x = 3c) x = 4d) x = -32. Simplify the expression: $2x + 3x + 2^{2}$ of 2 a) 8x - 2b) 10x + 6 Page 1 of 2 b) 10x + 6 Page 1 of 2 c) 11x + 6d) 8x + 63. Solve the equation for x: 5(x - 3) = 2(x + 4)a) x = -1b) x = 3c) x = 7d) x = 14. Which equation represents a line that is parallel to the line y = 2x - 3? a) y = 2x + 5b) y = -2x - 3c) y = -2x + 3d) y = x + 1
- 5. Simplify the expression: $(x^2 4)(x^3 + 2x)$ a) $x^5 - 4x$