

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

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

## Algebra I

Directions: Simplify each expression.

1.  $\frac{x^{11} + x^5}{x^3} =$

2.  $\frac{w^3 - w^{12}}{w^2} =$

3.  $\frac{x^5 + x^4}{x^3} =$

4.  $\frac{2x^3 + 4x^2}{2x} =$

5.  $\frac{4x^2 + 8x + 8}{4} =$

6.  $\frac{14x^6 + 21x^3 - 14x^2}{7x^2} =$

7.  $\frac{18w^3 - 12w^2}{6w^2} =$

8.  $\frac{32x^7 - 16x^4}{8x^4} =$

9.  $\frac{24x + 4}{2} =$

10.  $\frac{48x^3 + 12x^2 - 18x + 6}{6} =$

11.  $\frac{x^4 + x^5}{x^2} =$

12.  $\frac{24x^3 + 16x^2 - 4x + 4}{4} =$

$$13. \frac{25x^2+5x}{5x}$$

$$14. \frac{2a^2b^3 - 8ab^2c}{2ab}$$

$$15. \frac{x^2y^3z^2 - 6y^2z + 7xyz - y^3z}{yz}$$

$$16. \frac{a^3b^2c^2 - 4a^2b^2c^2 + 3ab^3c^3 - 5ab^2c^4}{abc^2}$$

$$17. \frac{8r^4s^3t^2 - 2r^3s^2t + r^2st}{rst}$$

$$18. \frac{5ax^3 + 15bx^2 - 10cx}{5x}$$

$$19. \frac{8uv + 16uv^3w^2 - 8uvw}{4uv}$$

$$20. \frac{14x^3yz + 21x^2yz - 7xy^2z^3 + 28y^3z^2}{7yz}$$

$$21. \frac{6ax^4 + 12ax^3 - 18ax^2}{6ax^2}$$