

Name: _____ Date: _____ Period: _____

PEMDAS/Simplifying/ClassifyingSimplify (Show **ALL** Work!!!!)

1. $-2(1 + 5) + (-3)(2)$

2. $5^2 - 6(5 - 9)$

3. $(7 + 7)(7 - 7) - \frac{7}{-7}$

4. $[4(-3)]^2 + 4(-3)^2$

5. $x \cdot x \cdot x \cdot y \cdot y$

6. $m^{-2}n^0$

7. $r^3 \cdot r^2 \cdot s^7 \cdot s$

8. $x^5y^2 \cdot xy^2z^6$

9. $\frac{a^5b^3}{ab^8}$

10. $(4a^2b)^3(ab)^2$

11. $(3x)^2$

12. $\frac{(2a^4)(3a^2)}{6a^3}$

Write each polynomial in standard form. Then name each polynomial based on its degree and number of terms.

13. $4x - 3x^2$

14. $4x + 9$

15. $c^2 - 2 + 4c$

16. $9z^2 - 11z^2 + 5z - 5$

17. $-10 + 4q^4 - 8q + 3q^2$

18. $(7y^2 - 3y + 4y) + (8y^2 + 3y^2 + 4y)$

