

Name _____

Date _____ Hour _____

Algebra 2 & Trig.

Problem of the week- Due 10-31-2008

Directions: Print out this page and answer the following questions directly on that sheet of paper.

1. (1 point) Write in standard notation: 6.33×10^5 .

2. (1 point) Write in scientific notation: 0.0000008789

3. (1 point) Multiply and write the product in scientific notation: $(1.3 \times 10^{-5})(2.7 \times 10^{10})$

4. (1 point) Simplify: $(3x^2y^4z^3)(-4y^2z^3)$

5. (1 point) Simplify: $\frac{36a^5b^{10}c^{-2}}{6a^{-1}b^{-4}c^{-8}}$

6. (1 point) Simplify: $(3x + 2)(2x - 3)$

7. (1 point) Simplify: $(3x + 2) - (2x - 3)$

8. (1 point) Simplify: $(3x + 2) + (2x - 3)$

9. (1 point) Simplify: $(5x - 7)^2$

10. (1 point) Simplify: $\left(\frac{2x^3}{x^5y^3}\right)^{-3}$