

EOC Tutoring Reporting Category 5 (A11A)
Exponential Rules Assignment

Name _____
Period _____

Simplify.

1. $(-3m)m^3$

2. $-4(3x^4)x^2$

3. $3(-5x^7)x^2$

4. $(a^2)^3 a^7$

5. $(cd^2)^3 (c^4 d^6)$

6. $(3p^5)(4p^3)^2$

7. $\frac{a^3}{a}$

8. $\frac{x^5 y^3}{x^3 y^2}$

9. $\frac{45s^7}{15s^5}$

Solve.

10. Find the area of a rectangle with a length of $8m^3$ and a width of $4x^2 m^4$.

11. Find the area of a rectangle with a length of $(8m^3)^2$ and a width of $4x^2 m^4$.

12. The area of a rectangle is $81x^{10} y^2$. If the length of the rectangle is $3x^6 y^4$, what is the width?