

Name: _____ Date: _____ Period: _____

Secondary 1 Honors After Test 1 Review

Simplify these expressions using exponents:



1. $\frac{3 \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y \cdot y \cdot y}{45 \cdot x \cdot y \cdot y \cdot y \cdot y \cdot y \cdot y} =$ _____

2. $4x^{-18} \cdot 3x^2 =$ _____

3. $m^{24} \cdot m^{-10} =$ _____

4. $\frac{m^{24}}{m^{10}} =$ _____

5. $x^3y^5 \cdot xy^2 =$ _____

6. $w^4(3w)^2 =$ _____

7. $\frac{3x^3y^5}{9xy^2} =$ _____

8. $(3x^6yz^5)^2 =$ _____

9. $\frac{7y^{-8}}{y^{-4}} =$ _____

10. $\left(\frac{w}{4w^{10}}\right)^{-2} =$ _____

11. Evaluate $3x^2 - 2y^3$ if $x = -6$ and $y = -1$

12. Evaluate $\frac{3^{2x}y^5}{4^xy^3}$ if $x = 2$ and $y = 3$

An error is not a terror. Mistakes are proof that you're trying.