

Algebra I
QUIZ 8.1-8.3

Name _____
My favorite quote is _____

Directions: *Simplify the exponential expression, write your answer as a fraction in simplest form.
AKA: NO DECIMALS, NO NEGATIVE EXPONENTS* (2 points each)

1. $x \cdot x \cdot x \cdot y \cdot y$	2. 5^{-2}	3. $6^6 \cdot 6^{-4}$
4. $\frac{1}{2^{-2}}$	5. $(-2x^6)(4x^3y)$	6. $\frac{(-6)^{20} \cdot 6^5}{6^{23}}$
7. $(2x^4y)^3$	8. $8^0 x^{-3}$	9. $\frac{3x^2}{24x}$
10. $\frac{7}{21x^{-3}y^9}$	11. $(56a^6)^{-10} (56a^6)^{10}$	12. $\frac{8a^4b^8}{4a^{-2}}$

13. $-\left(\frac{2x}{5y}\right)^4$

14. $\left(\frac{3}{xy}\right)^2 \cdot \left(\frac{x}{4y}\right)^{-3}$

15. $\left(\frac{3^2 xy^3}{z^{-4}}\right)^2$