

Algebra 2
Homework – Exponents

Name _____

Simplify each expression.

1. $x^{\frac{3}{4}}$

1. _____

2. $x^{-5} \cdot x^8 \cdot x^{-10}$

2. _____

3. $(2x^5)^4 \cdot 3x^{-10}$

3. _____

4. $(x^{-3})^5(x^7)^0$

4. _____

5. $(x^{-8}x^{-2}y^{-3}y^5)^7$

5. _____

6. $\frac{x^{-4} \cdot y^5 x^7}{2x^{10}y}$

6. _____

7. $\frac{2x^7 \cdot 10x^5}{5x^{-6}}$

7. _____

8. $\frac{5x^{-5}y^{-7}}{25x^{-11}}$

8. _____