

Algebra I Class Worksheet #4 Unit 1 _____

Simplify each of the following.

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p =$ _____

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y =$ _____

3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b =$ _____

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$ _____

5. $(3x)(4x) =$ _____

6. $(3x)(4y) =$ _____

Find the value of each expression. If the value cannot be found, write 'not possible'.

7. $2^5 =$ _____

8. $1^3 =$ _____

9. $4^1 =$ _____

10. $10^3 =$ _____

11. $0 \div 8 =$ _____

12. $8 \div 0 =$ _____

Find the value of each expression when $x = 5$. If the value cannot be found, write 'not possible'.

13. $x \div 5 =$ _____

14. $\frac{x-5}{x+5} =$ _____

15. $(x+5)(x-5) =$ _____

16. $5 \div (x-5) =$ _____