

Exponential Rules Worksheet 1

Name: _____

Rewrite using properties of exponents.

1. $(5)(x)(x)(x)(x)$ 2. $3x^4 \cdot 5x^6$ 3. $4x^7 \cdot 2x^3$ 4. $(6)(6)(y)(y)(y)(z)(z)$

Rewrite each using a single exponent.

5. $(3^5)^8$ 6. $(4x^2)(2x^6)^2$ 7. $(x^6)^2$ 9. $(rt)^2$ 10. $5x^2y^3 \cdot 4x^4y^5$ 11. $(3x^4y^2z^3)^2$

12. $(4x^2)(8x^9)$ 13. $(7^3)^4$ 14. $2x^2 \cdot 3x^3y^4$ 15. $(x^2y)^3$ 16. $x^3 \cdot 4x^4$

Evaluate $2x^2 + 3x + 1$ for each x-value.

17. $x = 3$ 18. $x = 5$ 19. $x = -2$ 20. $x = 0$

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