

Name _____

SIMPLIFYING EXPRESSIONS #4

Directions: Simplify each of the expressions below. Show your work and write your final answer in the line provided.

Examples: $5x^2 \cdot 7x^4 \cdot -x = ?$

$(5 \cdot 7 \cdot -1) \cdot x = ?$
 $-35x^7$

$5 \cdot 7x \cdot -2x^3 = ?$

$(5 \cdot 7 \cdot -2) \cdot x \cdot x \cdot x \cdot x = ?$
 $-70x^4$

$5x^2 \cdot 3x \cdot 2y^3 = ?$

$(5 \cdot 3 \cdot 2) \cdot (x \cdot x \cdot x) \cdot (y \cdot y \cdot y) = ?$
 $30x^3y^3$

1) $2 \cdot 3x^2 \cdot 7x^3 = ?$

2) $2x^2 \cdot 7x^5 \cdot (-10) = ?$

3) $x \cdot x \cdot 4x \cdot 7x^3 = ?$

4) $5 \cdot 2x^4 \cdot 3 = ?$

5) $\frac{1}{2}x^2 \cdot 2x^4 \cdot 4x^2 = ?$

6) $-5x^2 \cdot (-7x^4) = ?$

7) $x^2 \cdot (-2x^2) \cdot (-3x) = ?$

8) $4x^2 \cdot 3x^4 \cdot 0.25y^2 = ?$

9) $5y \cdot 2x^2 \cdot 2y^2 \cdot 2x^2 = ?$

10) $3x \cdot 2 \cdot 3x^2 \cdot 2y^2 = ?$

11) $-3x \cdot (-2y) \cdot 3x \cdot 2y^2 = ?$

12) $x^2y^2z^2y^2x^2y^2 = ?$
