

Simplifying Algebraic Expressions Worksheet

Answer Key

Moving Your Fraction So Your Chi Can Flow Freely

Simplify the following expressions.

1. $2(4y - 3x) + 2(x - 1)$

$$8y - 4x - 2$$

2. $4[7[3 + (4 - 2) - 3]]$

$$56$$

3. $\frac{|-16| + |8|3}{4}$

$$10$$

4. $\frac{24}{26 - 2(3 - 4)}$

$$\frac{6}{7}$$

5. $5 - 2\left[x(y - 3) + 12\left(\frac{x}{4}\right)\right] - y$

$$5 - 2xy - y$$

6. $(l - 2x)(m + 2x) + 4\left(\frac{m-l}{2} + x\right)x$

$$lm$$

7. $3(w + 4t)w - (t + 2w)(2w + t)$

$$-w^2 - t^2 + 4wt$$

8. $(-2 + 3| - z^2 - 4|) + 5(1 - z^2)$

$$15 - 2z^2$$

9. $\frac{\frac{x+2+2x^2+4x}{x+2}}{1 + 2x}$

10. $1 + 2\left[\frac{y}{3} - 3\left(1 - \frac{y}{2}\right) - \frac{1}{2}(1 - 2y)\right]$

$$\frac{17y}{3} - 6$$

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