

Day 3 – Simplifying Expressions: Combining Like Terms Notes

Terms with the same variable raised to the same exponent are like terms.

Like: $3x$ and $-7x$	Like: $2y^2$ and $6y^2$	Not Like: $4x$ and $6x^2$ Why??? <i>variables must have same exponent!</i>
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Directions: Simplify the following expressions:

1. $-3x + 6x$

$3x$

2. $y - 3 + 4 - 2y$

$-y + 3$

3. $\frac{4x+6y}{2} - 3y$

$\frac{4x}{2} + \frac{6y}{2} - 3y$

$2x + 3y - 3y$

$2x$

4. $8m + 1n - 3 + 10$

$8m + n + 7$

5. $9x - 10x^2 + 7x - 3$

$-10x^2 + 16x - 3$

6. $x + 2y + \frac{3x-9y}{3}$

$x + 2y + \frac{3x}{3} - \frac{9y}{3}$

$x + 2y + x - 3y$

$2x - y$