

1.5 – EVALUATE EXPRESSIONS AND COMBINE LIKE TERMS

Variables: symbols used to represent numbers

To **evaluate an expression**, replace each variable with a given value and simplify.

Evaluate each expression if $x = 3$, $y = -5$ and $z = -2$.

1. $x + z + (-5) = \underline{\quad}$ 2. $|-20 + (-y) + (-x)| = \underline{\quad}$

3. $6x + 9y - 2 = \underline{\quad}$ 4. $\frac{xyz}{z-y} = \underline{\quad}$

Like Terms: Terms that contain the same variables, with corresponding variables having the same powers.

EXAMPLES:

LIKE TERMS -

NOT LIKE TERMS -

COMBINE LIKE TERMS

5. $7x - 5 - 3y - 10x + 8y - 8 =$ _____

6. $-2x - 6 + 9y - 3x - 9y =$ _____

7. $4xy - 4xz + 7xy - 11yz =$ _____

SIMPLIFY. **THEN, EVALUATE** for $x = 2$, $y = -4$, $z = 5$.

8. $7x - y - z - x - y + z$ _____

9. $5x - 2xy + 4y - 3y + 2x - z + 3xy$ _____
