

Simplifying Expressions

I. Expression

A. Math Problem where we are not solving for a variable.

ex: $(3x + 2x) + 7y$

x-ray machines *yo-yo's*

$5x + 7y$

II. **Negatives**
 • Begin alphabetically

ex: $2a - 4b + 6 - 7a + 3b$

$$2a - 7a - 4b + 3b + 6$$

$$-5a - b + 6$$

Same Charge Opposite

ex: $-c + (+d) + (-2c) - 3d$

$$-c + (-2c) + d - 3d$$

$$-3c - 2d$$

$$\text{ex: } \cancel{-5g} - \cancel{2e} + \cancel{7} - \cancel{6e} + \cancel{g} + \cancel{(+2)}$$

$$-2e - 6e - 5g + g + 7 + 2$$

$$\boxed{-8e - 4g + 9}$$