

STANDARD I: The student will be able to perform basic operations on algebraic expressions.

OBJECTIVE

2. Add and subtract polynomials.

ELIGIBLE CONTENT

Tips:

$(x+y)$ ==> get out of parentheses jail free.

$-(x+y)$ ==> distribute the - to all terms.

"change all signs"

"LIKE" Terms ==> same variable(s) and each corresponding variable must be raised to the same exponent.

- Using the distributive property may be required.
- Unlike denominators may be used.

Mr. C.

SAMPLE ITEMS

1 Simplify: $15x^2 + xy - 9x^2 - 3xy$

- A $6x^2 - 2xy$
- B $6x^4 - 2x^2y^2$
- C $24x^2 - 4xy$
- D $24x^4 - 4x^2y^2$

2 Simplify: $2(t^2 + 5) - 3(t^2 + 5)$

- A $t^2 + 5$
- B $-t^2 - 5$
- C $-t^2 + 10$
- D $-t^2 + 25$

3 Simplify: $2.5x^2 - 7.5 + 0.5x^2 + 2$

- A $3x^2 + 1$
- B $3x^2 - 5.5$
- C $3x^2 - 5$
- D $6x^2 + 1$

4 Simplify: $\frac{2x+1}{2} + \frac{12x+3}{6}$

- A $3x + 1$
- B $3x + 4$
- C $14x + 1$
- D $14x + 4$

5 Simplify: $\frac{1}{3}x + \frac{1}{3}y + 4(\frac{1}{6}x + \frac{1}{4}y)$

- A $x + \frac{2}{3}y$
- B $x + \frac{4}{3}y$
- C $\frac{1}{2}x + \frac{4}{3}y$
- D $x + \frac{1}{3}y$