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Friday, September 28, 2012
10:28 AM

Subtracting Polynomials

↳ change signs

Exs:

① $(3x^2 + 8x - 7) - (2x^2 - 5x + 3)$

↳ change all signs that FOLLOW sign

$$\boxed{3x^2} + 8x \text{ (red)} - \boxed{2x^2} + 5x \text{ (red)} - 3 \text{ (red)}$$

$$x^2 + 13x - 10$$

② From $4x^2 - 5x + 12$ subtract $8x^2 - 6x + 4$

$$\boxed{4x^2} - 5x \text{ (red)} + 12 \text{ (red)} - (8x^2 - 6x + 4)$$

$$-8x^2 + 6x - 4$$

$$-4x^2 + x + 8$$

③ Subtract $x^2 - 5x + 4$ from $3x^2 + 2x - 1$

$$- (x^2 - 5x + 4) + \boxed{3x^2} + 2x \text{ (red)} - 1 \text{ (red)}$$

$$-x^2 + 5x - 4$$

$$2x^2 + 7x - 5$$

④ Subtract $2m^2 - 9m - 6$
- $(3m^2 + 3m - 9)$

$$\boxed{2m^2} - 9m - 6 - \boxed{3m^2} - 3m + 9$$

$$-m^2 - 12m + 3$$

⑤ $8x - (10x - (7 - 4x))$ *nested parenthesis

$$8x - (\boxed{10x} - 7 \boxed{+4x})$$

$$8x - (14x - 7)$$

$$\boxed{8x} \boxed{-14x} + 7$$

$$-6x + 7$$