

Boletín de sumas y restas de polinomios

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$$(1) a) -(-3x^4 + 2x^3 - 7x^2 + 5x - 6) + (-5x^3 + 4x^2 - 8) + (3x^2 + 6x - 9)$$

$$3x^4 - 2x^3 + 7x^2 - 5x + 6 - 5x^3 + 4x^2 - 8 + 3x^2 + 6x - 9$$

$$3x^4 - 7x^3 + 14x^2 + x - 11$$

$$b) -(-5x^3 + 4x^2 - 8) + (3x^2 + 6x - 9) + \left(-\frac{1}{3}x^3 + \frac{3}{4}x^2 - x + 1\right)$$

$$5x^3 - 4x^2 + 8 + 3x^2 + 6x - 9 - \frac{1}{3}x^3 + \frac{3}{4}x^2 - x + 1$$

$$\frac{14}{3}x^3 - \frac{1}{4}x^2 + 5x$$

$$c) (-3x^4 + 2x^3 - 7x^2 + 5x - 6) + (5x^3 + 4x^2 - 8) + (3x^2 + 6x - 9)$$

$$-3x^4 + 2x^3 - 7x^2 + 5x - 6 + 5x^3 + 4x^2 - 8 + 3x^2 + 6x - 9$$

$$-3x^4 + 7x^3 + 11x - 23$$

$$d) -(-3x^4 + 2x^3 - 7x^2 + 5x - 6) - (5x^3 + 4x^2 - 8) - \left(-\frac{1}{2}x^3 + \frac{3}{4}x^2 - x + 1\right)$$

$$3x^4 - 2x^3 + 7x^2 - 5x + 6 - 5x^3 - 4x^2 + 8 + \frac{1}{2}x^3 - \frac{3}{4}x^2 + x - 1$$

$$3x^4 - \frac{20}{3}x^3 + \frac{9}{4}x^2 - 4x + 13$$

$$e) (-3x^4 + 2x^3 - 7x^2 + 5x - 6) - (5x^3 + 4x^2 - 8) - (3x^2 + 6x - 9)$$

$$-3x^4 + 2x^3 - 7x^2 + 5x - 6 - 5x^3 - 4x^2 + 8 - 3x^2 - 6x + 9$$

$$-3x^4 - 3x^3 - 14x^2 - x + 11$$

$$f) -(5x^3 + 4x^2 - 8) - (3x^2 + 6x - 9) - \left(-\frac{1}{3}x^3 + \frac{3}{4}x^2 - x + 1\right)$$

$$-5x^3 - 4x^2 + 8 - 3x^2 - 6x + 9 + \frac{1}{3}x^3 - \frac{3}{4}x^2 + x - 1$$

$$\boxed{-\frac{14}{3}x^3 - \frac{31}{4}x^2 - 5x + 16}$$

$$g) (-3x^4 + 2x^3 - 7x^2 + 5x - 6) - (5x^3 + 4x^2 - 8) + (3x^2 + 6x - 9) - \left(-\frac{1}{3}x^3 + \frac{3}{4}x^2 - x + 1\right)$$

$$-3x^4 + 2x^3 - 7x^2 + 5x - 6 - 5x^3 - 4x^2 + 8 + 3x^2 + 6x - 9 + \frac{1}{3}x^3 - \frac{3}{4}x^2 + x - 1$$

$$\boxed{-3x^4 - \frac{8}{3}x^3 - \frac{35}{4}x^2 + 12x - 8}$$

$$h) -\left(-\frac{1}{3}x^3 + \frac{3}{4}x^2 - x + 1\right) - (-3x^4 + 2x^3 - 7x^2 + 5x - 6)$$

$$\frac{1}{3}x^3 - \frac{3}{4}x^2 + x - 1 + 3x^4 - 2x^3 + 7x^2 - 5x + 6$$

$$\boxed{-\frac{5}{3}x^3 + \frac{25}{4}x^2 - 4x + 5 + 3x^4}$$