

Polynomial Addition :

$$1. (3x^2 + 5x) + (4x - 8x^2) = (3 - 8)x^2 + (5 + 4)x$$
$$= \underline{\hspace{1cm}}x^2 + \underline{\hspace{1cm}}x$$

$$2. (7x^4 - 5x^3 - x - 18) + (x - 12 + 4x^3 - 9x^2)$$
$$= \underline{\hspace{1cm}}x^4 + (-5 + 4)x^3 + \underline{\hspace{1cm}}x^2 + (-1 + 1)\underline{\hspace{1cm}} + (-18 - 12)$$
$$= \underline{\hspace{1cm}}x^4 + \underline{\hspace{1cm}}x^3 + \underline{\hspace{1cm}}x^2 + \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$$

$$3. (11m^2 + m^3 - 4m + 3) + (m^2 - 11 + 7m - 5m^3)$$
$$= \underline{\hspace{1cm}}m^3 + \underline{\hspace{1cm}}m^2 + \underline{\hspace{1cm}}m + \underline{\hspace{1cm}}$$

$$4. (7y^5 - 6y - 41) + (24y - 12 + 9y^2)$$
$$= \underline{\hspace{1cm}}y^5 + \underline{\hspace{1cm}}y^2 + \underline{\hspace{1cm}}y + \underline{\hspace{1cm}}$$