

#5

Adding & Subtracting Polynomials

$$1) (4y+5) + (-7y-1)$$

$$\boxed{-3y+4}$$

$$2) (-x^2+3x) - (5x+2x^2)$$

$$\boxed{-3x^2-2x}$$

$$3) (4k^2+8k+2) - (2k+3)$$

$$\boxed{4k^2+6k-1}$$

$$4) (2m^2+6m) + (m^2-5m+7)$$

$$\boxed{3m^2+m+7}$$

$$5) (2w^2-3w+1) + (4w-7)$$

$$\boxed{2w^2+w-6}$$

$$6) (g^3+2g^2) - (6g-4g^2+2g^3)$$

$$\boxed{-g^3+6g^2-6g}$$

$$7) (5a^2+6a+2) - (7a^2-7a+5)$$

$$\boxed{-2a^2+13a-3}$$

$$8) (-4p^2-p+9) + (p^2+3p-1)$$

$$\boxed{-3p^2+2p+8}$$

$$9) (x^3-3x+1) - (x^3+7-12x)$$

$$\boxed{9x-6}$$

$$10) (6c^2-c+1) - (-4+2c^2+8c)$$

$$\boxed{4c^2-9c+5}$$

$$11) (-b^3+8bc^2+5) - (7bc^2-2+b^3)$$

$$\boxed{-2b^3+bc^2+7}$$

$$12) (5n^2-3n+2) + (-n+2n^2-4)$$

$$\boxed{7n^2-4n-2}$$

$$13) (4y^2+2y-8) - (7y^2+4-y)$$

$$\boxed{-3y^2+3y-12}$$

$$14) (w^2-4w-1) + (-5+5w^2-2w)$$

$$\boxed{6w^2-7w-6}$$

$$15) (4u^2-2u-3) + (3u^2-u+4)$$

$$\boxed{7u^2-3u+1}$$

$$16) (5b^2-8+2b) - (b+9b^2+5)$$

$$\boxed{-4b^2+b-13}$$

$$17) (4d^2 + 2d + 2) + (5d^2 - 2 - d)$$

$$\boxed{9d^2 + d}$$

$$18) (8x^2 + x - 6) - (-x^2 + 2)$$

$$\boxed{9x^2 - x - 8}$$

$$19) (3h^2 + 7h - 1) - (4h + 8h^2 + 1)$$

$$\boxed{-5h^2 + 3h - 2}$$

$$20) (4m^2 - 3m + 10) + (m^2 + m - 2)$$

$$\boxed{5m^2 - 2m + 8}$$

$$21) (x^2 + y^2 - 6) - (5x^2 - y^2 - 5)$$

$$\boxed{-4x^2 + 2y^2 - 1}$$

$$22) (7t^2 + 2 - t) + (t^2 - 7 - 2t)$$

$$\boxed{8t^2 - 3t - 5}$$

$$23) (k^3 - 2k^2 + 4k - 10) - (-4k + k^2 - 3)$$

$$\boxed{k^3 - 3k^2 + 8k + 7}$$

$$24) (9j^2 + j + jk) + (-3j^2 - jk - 4j)$$

$$\boxed{6j^2 - 3j}$$

$$25) (2x + 0y - 3z) + (4x + 0z - 8y) + (x - 3y + z)$$

$$\boxed{7x - 5y + 4z}$$

$$26) (6f^2 - 7f - 3) - (5f^2 + f - 2) - (2f^2 + 3f + 1)$$

$$\boxed{-f^2 - 10f + 1}$$

$$27) (5^3 - 70s^2 + 1500s - 10,800) + (s^3 - 30s^2 + 450s - 5000)$$

$$\boxed{2s^3 - 100s^2 + 1950s - 15800}$$

$$28) \begin{array}{r} 3x + 4y \\ + 5x - 0 \\ \hline 8x + 4y \end{array} - \begin{array}{r} 10x + 5y \\ (8x + 3y) \\ \hline 2x + 2y \end{array} \quad \boxed{2x + 2y}$$

Box 6 (set 4)

A. $(7a^3 + 8a^2 - 2a) - (4a^3 - 3a^2 - 9a)$
 $\underline{7a^3} + 8a^2 - 2a - \underline{4a^3} + 3a^2 + 9a$
 $3a^3 + 11a^2 + 7a$

N. $(-2a^3 + 9a^2 - 4) - (-7a^3 + 7a - 4)$
 $\underline{-2a^3} + 9a^2 - 4 + \underline{7a^3} - 7a + 4$
 $5a^3 + 9a^2 - 7a$

H. $(-a^2 - 5ab - 8b^2) - (6a^2 - 9ab + 2b^2)$
 $\underline{-a^2} - 5ab - 8b^2 - \underline{6a^2} + 9ab - 2b^2$
 $-7a^2 - 10b^2 + 4ab$

T. $(2a^2 - 3ab + 3b^2) - (11a^2 + 8ab - b^2)$
 $\underline{2a^2} - 3ab + 3b^2 - \underline{11a^2} - 8ab + b^2$
 $-9a^2 + 4b^2 - 11ab$