EL CUADRADO DE LA SUMA DE DOS CANTIDADES:    $(a + b)^2 = (a)^2 + 2(a)(b) + (b)^2$

$$= a^2 + 2ab + b^2$$

1.  $(x + 5)^2 =$      **a.** $x^2 + 10x + 25$      **b.** $x^2 + 5x + 10$      **c.** $x + 5x + 25^2$

2.  $(7a^3 + b^2)^2 =$      **a.** $14a^5 + 7a^3b^2 + b^2$      **b.** $49a^6 + 14a^3b^2 + b^4$      **c.** $49a^5 + 14a^3b^2 + b^4$

3.  $(7a^8 + 10b)^2 =$      **a.** $49a^{16} + 140a^8b + 100b^2$      **b.** $14a^8 + 140a^3b^2 + b^4$      **c.** $49a^8 + 14a^3b^2 + b^4$

4.  $(9a + 9b)^2 =$      **a.** $81a + 81a^3b^2 + b^2$      **b.** $18a + 81ab^2 + b^4$      **c.** $81a^2 + 162ab + 81b^2$

5.  $(2x + 3y)^2 =$      **a.** $4x^2 + 6x^2y^2 + 6y^2$      **b.** $4xy + 6x + 6y^2$      **c.** $4x^2 + 12xy + 9y^2$

6.  $(ax + by)^2 =$      **a.** $2ax^2 + axby + y^2$      **b.** $a^2x^2 + 2abxy + b^2y^2$      **c.** $2x^2 + 2a^2x^2by + by^2$

7.  $(3a + 8b)^2 =$      **a.** $9a^2 + 48ab + 64b^2$      **b.** $6a^2 + 24ab + 16b^2$      **c.** $9a + 24ab + 64b$

8.  $(6m^3 + 5n^5)^2 =$      **a.** $6m^5 + 30m^3n^5 + 10n^{25}$      **b.** $36m^6 + 60m^3n^5 + 25n^{10}$      **c.** $m^5 + 60m^3n^5 + 25n^5$

9.  $(8a^5b^3 + 5x)^2 =$      **a.** $16a^5b^6 + 13a^3b^5 + 10x^2$      **b.** $64a^{10}b^6 + 80a^5b^3x + 25x^2$      **c.** $64a^5b + 14a^3b^2 + x^4$

10. $(8m + 9xy)^2 =$      **a.** $16m^2 + 17mxy + 18xy^2$      **b.** $64m + 144mxy + 18y$      **c.** $64m^2 + 144mxy + 81x^2y^2$

EL CUADRADO DE LA DIFERENCIA DE DOS CANTIDADES:    $(a - b)^2 = (a)^2 - 2(a)(b) + (b)^2$

$$= a^2 - 2ab + b^2$$

1.  $(8b^5 - 3c^7)^2 =$      **a.** $16a^5b^6 - 13a^3b^5 + 10x^2$      **b.** $64a^{10}b^6 + 80a^5b^3x + 25x^2$      **c.** $64b^{10} - 48b^5c^7 + 9c^{14}$

2.  $(7x^{10} - 2y^9)^2 =$      **a.** $49x^{20} - 28x^{10}y^9 + 4y^{18}$      **b.** $14x^{10} - 14x^{10}y^9 + 4y^9$      **c.** $49x^{12} - 28x^{10} + 4y^{18}$

3. $(8m - 8b)^2 =$   **a.** $16m - 16bm + 16b^2$   **b.** $64m^2 - 128bm + 64b^2$   **c.** $64m^2 + 128bm + 64b^2$

4. $(2p^7 - 3q^5)^2 =$   **a.** $4p^{14} - 12p^7q^5 + 9q^{10}$   **b.** $4p - 6p^7q^5 + 9q$   **c.** $4p^7 - 12pq + 4q^5$

5. $(6m - 9n)^2 =$   **a.** $36m^2 - 108mn + 81n^2$   **b.** $12m^2 - 108mn + 18n^2$   **c.** $36m^{12} - 28mn + 81n^2$

6. $(mn - op)^2 =$   **a.** $m^2n - mnop + py^2$   **b.** $2mn - 2mnop + 2op$   **c.** $m^2n^2 - 2mnop + o^2p^2$

7. $(9c - 8d)^2 =$   **a.** $18c^2 - 72cd + 16d^2$   **b.** $81c^2 - 144cd + 64d^2$   **c.** $81c^2 - 17cd + 16^2$

8. $(2a - 4b)^2 =$   **a.** $4a^2 - 16ab + 16b^2$   **b.** $2a^2 - 8ab + 64b^2$   **c.** $4a^2 + 8ab + 16b^2$

9. $(7pq - 4x)^2 =$   **a.** $14pq^2 - 28pqx + 8x^2$   **b.** $49p^2q^2 - 56pqx + 16x^2$   **c.** $4pq^2 + 56pqx + 16x^2$

10. $(8m^5n^4 - 6p^3)^2 =$   **a.** $16m^{10} - 48m^5n^4p^3 + 12p^6$ **b.** $64m^{10}n^8 - 96m^5n^4p^3 + 36p^6$ **c.** $8mn + 48mnp + 16p^6$