

1. Fill in the blanks

$$(a) (6a^5 + \underline{5x})^2 = \underline{36a^{10}} + \underline{60a^5x} + 25x^2$$

$$(b) (\underline{5xy^2} - 4x^7)^2 = 25x^4y^2 - \underline{40x^9y} + \underline{16x^{14}}$$

$$(c) (10m^5 + \underline{6m^2n^3})^2 = \underline{100m^{10}} + \underline{120m^7n^3} + 36m^4n^6$$

$$(d) (8a^3 - \underline{7a^4b^3})^2 = \underline{64a^6} - \underline{112a^7b^3} + 49a^8b^6$$

$$(e) (\underline{3c^2d} + 4d^4)^2 = \underline{9c^4d^2} + 24c^2d^5 + \underline{16d^8}$$

$$(f) (4p^2q^2 + \underline{0.1q^4})^2 = \underline{16p^4q^4} + \underline{0.8p^2q^6} + 0.01q^8$$

$$(g) (\underline{9a^3b} - 8a^4)^2 = 81a^6b^2 - \underline{144a^7b} + \underline{64a^8}$$

$$(h) (8q^4t^3 - \underline{0.4t^2})^2 = \underline{64q^8t^6} - \underline{6.4q^4t^5} + 0.16t^4$$

$$(i) (\underline{5b^3} - \underline{7c})^2 = \underline{25b^6} + 70b^3c + 49c^2$$

$$(j) (\underline{7x^3} - \underline{5y^2})^2 = \underline{49x^6} + 70x^3y^2 + \underline{25y^4}$$

$$(k) (\underline{9x} - \underline{10xy^3})^2 = 81x^2 - \underline{180xy^3} + 100x^4y^6$$

$$(l) (\underline{8c^5} - \underline{3d^3})^2 = \underline{64c^{10}} - 48c^5d^3 + \underline{9d^6}$$

$$(m) a^2 + \underline{2ab} + b^2 = (a + b)^2$$

$$(n) \underline{16a^2} - 56a + 49 = (4a - 7)^2$$

$$(o) b^2 + 20b + \underline{100} = (b + 10)^2$$

$$(p) \underline{9c^2} - 12c + \underline{4} = (3c - 2)^2$$

$$(q) b^2 - 20b + \underline{100} = (\underline{b} - 10)^2$$

$$(r) \underline{9p^2} - 42pq + 49q^2 = (3p - \underline{7q})^2$$