

Name:

Date: Score:

Adding and Subtracting Polynomials Worksheet

① $(q^3 - 2q^2) - (3q^2 - 4q^3)$

② $(4 + 2p^3) + (5p^3 + 2)$

③ $(3x^2 - x) + 5x^3 + (-4x^3 + x^2 - 8)$

④ $(8s - 1 - 7s^4) + (7s^4 + 1 - 2s)$

⑤ $(8l^4 + 6) - (8l^4 - 6)$

⑥ $(2p - 8p^2) - (5p^4 - 3p^2)$

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

⑧ $(-9xy^3 - 9x^4y^3) + (3xy^3 + 7y^4 - 8x^4y^4) + (3x^4y^3 + 2xy^3)$

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① $(q^3 - 2q^2) - (3q^2 - 4q^3)$

$$\underline{5q^3 - 5q^2}$$

② $(4 + 2p^3) + (5p^3 + 2)$

$$\underline{7p^3 + 6}$$

③ $(3x^2 - x) + 5x^3 + (-4x^3 + x^2 - 8)$

$$\underline{x^3 + 4x^2 - x - 8}$$

④ $(8s - 1 - 7s^4) + (7s^4 + 1 - 2s)$

$$\underline{6s}$$

⑤ $(8l^4 + 6) - (8l^4 - 6)$

$$\underline{12}$$

⑥ $(2p - 8p^2) - (5p^4 - 3p^2)$

$$\underline{-5p^4 - 5p^2 + 2p}$$

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

$$\underline{9m^4 - 2m^2 - 9}$$

⑧ $(-9xy^3 - 9x^4y^3) + (3xy^3 + 7y^4 - 8x^4y^4) + (3x^4y^3 + 2xy^3)$

$$\underline{-8x^4y^4 - 6x^4y^3 + 7y^4 - 4xy^3}$$