

Name:

Date: Score:

Adding & Subtracting Polynomials

Add the given polynomials

① $(6p^2 - q - 4) + (2q^2 + 5q - 5)$

② $(4x^2 + 2x - 5) + (6x^2 - x - 5)$

③ $(3x^2 + 1) + (4 + 2x^2)$

④ $3x^3 - 2 + (9x + x^3) + 7$

Subtract the given polynomials

⑤ $(4p^2 - p - 3) - (p^2 + 2p - 5)$

⑥ $3(c - 4) - 5(c^2 + 4c - 6)$

⑦ $2(l - 7) - 3(l^2 - 2l + 8)$

⑧ $5(q + 3) - 9(q^2 - 3q + 2)$

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Answers

① $(6p^2 - q - 4) + (2q^2 + 5q - 5)$

② $(4x^2 + 2x - 5) + (6x^2 - x - 5)$

$6p^2 + 2q^2 + 4q - 9$

$10x^2 + x - 10$

③ $(3x^2 + 1) + (4 + 2x^2)$

④ $3x^3 - 2 + (9x + x^3) + 7$

$5(x^2 + 1)$

$4x^3 + 9x + 5$

⑤ $(4p^2 - p - 3) - (p^2 + 2p - 5)$

⑥ $3(c - 4) - 5(c^2 + 4c - 6)$

$3p^2 - 3p + 2$

$-5c^2 - 17c + 18$

⑦ $2(l - 7) - 3(l^2 - 2l + 8)$

⑧ $5(q + 3) - 9(q^2 - 3q + 2)$

$-3l^2 + 8l - 38$

$-9q^2 + 32q - 3$