

Name:

Date: Score:

Adding and Subtracting Polynomials Worksheet

Simplify each expression

① $(3b^2 + 2b - 2) - (b^2 - 3b + 7)$

② $(3v^4 - 3v) - (3v - 3v^4)$

③ $(5 - 2p^4 + 7p^2) - (4p^2 - 7 - p^4)$

④ $(2x^3 - 6) + (9x^3 - 4x^2)$

⑤ $(12a^5 - 6a - 10a^3) - (10a - 2a^5 - 14a^4)$

⑥ $(2p^3 - 8p - 5p^4 + 7) - (4p - 2 - 6p^4 + 6p^3) - (6p + 3p^3 - 7 + 8p^4)$

⑦ $-10(p + q) + 8(p - 1) - 3(p + 6)$

Name:

Date: Score:

Adding and Subtracting Polynomials Worksheet

Simplify each expression

① $(3b^2 + 2b - 2) - (b^2 - 3b + 7)$

$$\underline{2b^2 + 5b - 9}$$

② $(3v^4 - 3v) - (3v - 3v^4)$

$$\underline{6v^4 - 6v}$$

③ $(5 - 2p^4 + 7p^2) - (4p^2 - 7 - p^4)$

$$\underline{-p^4 + 3p^2 + 12}$$

④ $(2x^3 - 6) + (9x^3 - 4x^2)$

$$\underline{11x^3 - 4x^2 - 6}$$

⑤ $(12a^5 - 6a - 10a^3) - (10a - 2a^5 - 14a^4)$

$$\underline{14a^5 + 14a^4 - 10a^3 - 16a}$$

⑥ $(2p^3 - 8p - 5p^4 + 7) - (4p - 2 - 6p^4 + 6p^3) - (6p + 3p^3 - 7 + 8p^4)$

$$\underline{-7p^4 - 7p^3 - 18p + 16}$$

⑦ $-10(p + q) + 8(p - 1) - 3(p + 6)$

$$\underline{-5p - 10q - 14}$$