



Name : Class :

Adding and subtracting polynomials

Add or subtract the below polynomials

1) $(a^4 - 5a^2) + (8a^2 - 7a^4)$

2) $(6a^3 - 3a^6) - (3a^3 - 6a^6)$

3) $(4a^5 + 5a^4) + (2a^4 - 2a^5) + a$

4) $(14a^2 + 55a^3) - 2a - (20a^2 - 12a^3)$

5) $(-39a^3 + 61a^2) - 32a + 21a^2 - (17a^4 - 13a^3 + 20a)$

6) $(5z^2 + 2z^2x - 12zx^2 + 3x^2) - 11x^2z + 6xz^2$

ANSWER SHEET

Add or subtract the below polynomials

$$1) (a^4 - 5a^2) + (8a^2 - 7a^4) \quad \underline{\underline{-6a^4 + 3a^2}}$$

$$2) (6a^3 - 3a^6) - (3a^3 - 6a^6) \quad \underline{\underline{3a^6 + 3a^3}}$$

$$3) (4a^5 + 5a^4) + (2a^4 - 2a^5) + a \quad \underline{\underline{2a^5 + 7a^4 + a}}$$

$$4) (14a^2 + 55a^3) - 2a - (20a^2 - 12a^3) \quad \underline{\underline{67a^3 - 6a^2 - 2a}}$$

$$5) (-39a^3 + 61a^2) - 32a + 21a^2 - (17a^4 - 13a^3 + 20a) \quad \underline{\underline{-17a^4 - 26a^3 + 82a^2 - 52a}}$$

$$6) (5z^2 + 2z^2x - 12zx^2 + 3x^2) - 11x^2z + 6xz^2 \quad \underline{\underline{5z^2 + 3x^2 + 8z^2x - 23x^2z}}$$