Adding Polynomials

Simplify the following. Show the steps.

1 $(x^2 - 4x) + (x^2 - x)$

2 $(2x^3 - 5x^2) + (5x^3 - 6x^2)$

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

4 $5x^3 + 3x^2 - 2x + 7x + 13$

5 $(6x^3 + 8x + 9x^2 - 12)$

6 $12(x^2 - 4x + 8) + 9(x^3 + x^2 + 11)$

7 $(3 - 6x^5 - 8x^4) - (-6x^4 - 3x - 8x^5)$

8 $(8a^3 - 6 + 3a^4) - (a^4 - 7a^3 - 3)$

Adding Polynomials

MATH MONKS

Answers

1 $(x^2 - 4x) + (x^2 - x)$

$2x^2 - 5x$

2 $(2x^3 - 5x^2) + (5x^3 - 6x^2)$

$5x^2 + 3x^2 + 5x + 13$

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

$5x^3 - 11x^2$

4 $5x^3 + 3x^2 - 2x + 7x + 13$

$6x^3 + 9x^2 + 8x - 12$

5 $(6x^3 + 8x + 9x^2 - 12)$

$2x^3 - 9x^2 - 10x - 7$

6 $12(x^2 - 4x + 8) + 9(x^3 + x^2 + 11)$

$9x^3 + 21x^2 - 48x + 195$

7 $(3 - 6x^5 - 8x^4) - (-6x^4 - 3x - 8x^5)$

$2x^5 - 2x^4 + 3x + 3$

8 $(8a^3 - 6 + 3a^4) - (a^4 - 7a^3 - 3)$

$2a^4 + 15a^3 - 3$