Name:

Date:

Simplifying Polynomial Expressions

Simplify each polynomial.

1) $2x^2 + 5x^3 - 7x^2 + 12x =$

2) $10x^2 - 5x^4 + 14x^3 - 20x^4 + 15x^3 - 8x^4$

3) $5x^3 + 1 + x^2 - 2x - 10x$

4) $(12x^4 + 4x^2) - (2x^2 - 6x^4) =$

5) $(2x + 2) - (7x + 6)$

6) $(-3x^5 + 12 - 4x) + (8x^4 + 5x + 5x^5)$

7) $(23x^3 - 12x^2) - (2x^2 - 9x^3)$

8) $2x^4 - 5x^5 + 8x^4 - 8x^2 =$

9) $4x^2 - 5x^3 + 15x^4 - 12x^3 =$

10) $2(4x - 3x^3) - 3(3x^3 + 4x^2) =$

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1) Simplify polynomial.
$2x^2 + 5x^3 - 7x^2 + 12x =$

$5x^3 - 5x^2 + 12x$

2) $10x^2 - 5x^4 + 14x^3 - 20x^4 + 15x^3 - 8x^4$

$-33x^4 + 29x^3 + 10x^2$

3) $5x^3 + 1 + x^2 - 2x - 10x$

$5x^3 + x^2 - 12x + 1$

4) $(12x^4 + 4x^2) - (2x^2 - 6x^4) =$

$18x^4 + 2x^2$

5) $(2x + 2) - (7x + 6)$

$-5x - 4$

6) $(-3x^5 + 12 - 4x) + (8x^4 + 5x + 5x^5)$

$2x^5 + 8x^4 + x + 12$

7) $(23x^3 - 12x^2) - (2x^2 - 9x^3)$

$32x^3 - 14x^2$

8) $2x^4 - 5x^5 + 8x^4 - 8x^2 =$

$-5x^5 + 10x^4 - 8x^2$

9) $4x^2 - 5x^3 + 15x^4 - 12x^3 =$

$15x^4 - 17x^3 + 4x^2$

10) $2(4x - 3x^3) - 3(3x^3 + 4x^2) =$

$-15x^3 - 12x^2 + 8x$