Name: Score:

Teacher: Date:

Adding and Subtracting Polynomials

Simplify each expression.

1)
$$(5k^3 - 9k^2 - 2k) + (8k^4 - 3k^2 + k) - (4k^3 - 6k^4 + 7k^2)$$
 6) $(7b + 2b^4 - 4) + (8b + 9b^4 - 6b^2)$

6)
$$(7b + 2b^4 - 4) + (8b + 9b^4 - 6b^2)$$

2)
$$(6g^2 - 2g^4) - (5g^2 + 4g^3) - (9g^3 + 7g^4 - 8g^2)$$

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

3)
$$(5-6r^3) - (9r^5 + 8 - 2r^3) - (7 + 3r)$$

8)
$$(g^2 + 5g^5 - 4) + (7g^2 - 2 + 8g^5) - (9g^2 - 6g - 3)$$

4)
$$(4s^4 - 6s^2 + 2) - (7s^4 - 9 + 8s)$$

9)
$$(6q^4 + 8q^3 - 9) + (2q^3 - 7q^2 + 4)$$

5)
$$(2 - 5z^3 - 9z^4) - (7z^4 + 4) + (8z^3 + 3z^2)$$

10)
$$(7x + 4x^4) - (5x + 8x^4 - 6)$$





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Adding and Subtracting Polynomials

Simplify each expression.

1)
$$(5k^3 - 9k^2 - 2k) + (8k^4 - 3k^2 + k) - (4k^3 - 6k^4 + 7k^2)$$
 6) $(7b + 2b^4 - 4) + (8b + 9b^4 - 6b^2)$
 $14k^4 + k^3 - 19k^2 - k$ 11 $b^4 - 6b^2 + 15b - 4$

6)
$$(7b + 2b^4 - 4) + (8b + 9b^4 - 6b^2)$$

 $11b^4 - 6b^2 + 15b - 4$

2)
$$(6g^2 - 2g^4) - (5g^2 + 4g^3) - (9g^3 + 7g^4 - 8g^2)$$

- $9g^4 - 13g^3 + 9g^2$

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

 $2n^5 + n^3 + 3n - 1$

3)
$$(5 - 6r^3) - (9r^5 + 8 - 2r^3) - (7 + 3r)$$

- $9r^5 - 4r^3 - 3r - 10$

8)
$$(g^2 + 5g^5 - 4) + (7g^2 - 2 + 8g^5) - (9g^2 - 6g - 3)$$

 $13g^5 - 1g^2 + 6g - 3$

4)
$$(4s^4 - 6s^2 + 2) - (7s^4 - 9 + 8s)$$

- $3s^4 - 6s^2 - 8s + 11$

9)
$$(6q^4 + 8q^3 - 9) + (2q^3 - 7q^2 + 4)$$

 $6q^4 + 10q^3 - 7q^2 - 5$

5)
$$(2 - 5z^3 - 9z^4) - (7z^4 + 4) + (8z^3 + 3z^2)$$

- $16z^4 + 3z^3 + 3z^2 - 2$

10)
$$(7x + 4x^4) - (5x + 8x^4 - 6)$$

- $4x^4 + 2x + 6$

