Student Name: _____ **Score:**

Subtract the polynomials

1. $(5b^2 + 3b - 2) - (-2b^2 - 4b)$ = _____

2. $(6x^3 - x^2 + 4) - (3x^2 - 2x + 3)$ = _____

3. $(p^4 + 2p^2 + 3) - (p^3 + p^2 + 1)$ = _____

4. $(-v^2 + 8v + 1) - (5v^2 + v + 1)$ = _____

5. $(2w^3 + 4w^2 + 8w) + (3w^2 + 9w - 27)$ = _____

6. $(p^2 + 8p + 3) - (p^3 - 4)$ = _____

7. $(5q^3 - 3) - (7q^2 + 3q + 4))$ = _____

8. $(4y^3 - 12y^2 + 8y) - (y^3 + 8y^2 + 3y - 1)$ = _____

9. $(x^4 - 3) - (5x^2 + 2x + 6)$ = _____

10. $(12t^3 + 6t^2 + 1) - (5t^2 + 3t + 4)$ = _____

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Answers

1. $(5b^2 + 3b - 2) - (-2b^2 - 4b)$ = $\mathbf{7b^2 + 7b - 2}$

2. $(6x^3 - x^2 + 4) - (3x^2 - 2x + 3)$ = $\mathbf{6x^3 - 4x^2 + 2x + 1}$

3. $(p^4 + 2p^2 + 3) - (p^3 + p^2 + 1)$ = $\mathbf{p^4 - p^3 + p^2 + 2}$

4. $(-v^2 + 8v + 1) - (5v^2 + v + 1)$ = $\mathbf{-6v^2 + 7v}$

5. $(2w^3 + 4w^2 + 8w) - (3w^2 + 9w - 27)$ = $\mathbf{2w^3 + w^2 - w + 27}$

6. $(p^2 + 8p + 3) - (p^3 - 4)$ = $\mathbf{-p^3 + p^2 + 8p + 7}$

7. $(5q^3 - 3) - (7q^2 + 3q + 4))$ = $\mathbf{5q^3 - 7q^2 - 3q - 7}$

8. $(4y^3 - 12y^2 + 8y) - (y^3 + 8y^2 + 3y - 1)$ = $\mathbf{3y^3 - 20y^2 + 5y + 1}$

9. $(x^4 - 3) - (5x^2 + 2x + 6)$ = $\mathbf{x^4 - 5x^2 - 2x - 9}$

10. $(12t^3 + 6t^2 + 1) - (5t^2 + 3t + 4)$ = $\mathbf{12t^3 + t^2 - 3t - 3}$