Student Name: _____ **Score:**

Find the sum of polynomials

1. $(p^3 + 5p^2 + 9p - 6) + (-5p^3 - 8p + 1)$ = _____

2. $(-2p^4 + 3p + 9) + (4p^4 + 3p^3 + p)$ = _____

3. $(6q^5 + 2q^4 - 21q^3 + 1) + (3q^4 - q^3)$ = _____

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

5. $(s + 3) + (s^2 + 6s + 9)$ = _____

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

7. $(t^2 - 6t + 3) + (-t^2 - 9)$ = _____

8. $(y^4 + 5y^2 - 3) + (y^3 - 8y^2 + 4y + 12)$ = _____

9. $(p^4 + 3p^2 - 8) + (p^3 + 9)$ = _____

10. $(4t^3 + 7t^2 + 3t) + (-2t^2 + 2t - 5)$ = _____

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Answers

1. $(p^3 + 5p^2 + 9p - 6) + (-5p^3 - 8p + 1)$ = $\mathbf{-4p^3 + 5p^2 + p - 5}$

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

3. $(6q^5 + 2q^4 - 21q^3 + 1) + (3q^4 - q^3)$ = $\mathbf{6q^5 + 5q^4 - 22q^3 + 1}$

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

5. $(s + 3) + (s^2 + 6s + 9)$ = $\mathbf{s^2 + 7s + 12}$

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

7. $(t^2 - 6t + 3) + (-t^2 - 9)$ = $\mathbf{-6t - 6}$

8. $(y^4 + 5y^2 - 3) + (y^3 - 8y^2 + 4y + 12)$ = $\mathbf{y^4 + y^3 - 3y^2 + 4y + 9}$

9. $(p^4 + 3p^2 - 8) + (p^3 + 9)$ = $\mathbf{p^4 + p^3 + 3p^2 + 1}$

10. $(4t^3 + 7t^2 + 3t) + (-2t^2 + 2t - 5)$ = $\mathbf{4t^3 + 5t^2 + 5t - 5}$