

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

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

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

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

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

$$5. (s + 3) + (s^2 + 6s + 9) = s^2 + 7s + 12$$

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

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

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

$$9. (p^4 + 3p^2 - 8) + (p^3 + 9) = p^4 + p^3 + 3p^2 + 1$$

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