

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

## Answers

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

$$2. (-3x^2 + 4x - 3) + (-8x + 9) = -3x^2 - 4x + 6$$

$$3. (s^3 + 2s + 1) + (s^2 + 2s) = s^3 + s^2 + 4s + 1$$

$$4. (5a^3 - a^2 + 9) + (3a^2 - 2a + 1) = 5a^3 + 2a^2 - 2a + 10$$

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

$$6. (-u^2 + 9u + 3) + (u^3 - 1) = u^3 - u^2 + 9u + 2$$

$$7. (-10u^2 + 2u - 3) + (u^2 + 3u + 1) = -9u^2 + 5u - 2$$

$$8. (81y^3 + 9y + 27) + (3y^2 - 9) = 81y^3 + 3y^2 + 9y + 18$$

$$9. (7a^2 + 3a - 2) + (-10a^2 + 2a) = -3a^2 + 5a - 2$$

$$10. (21b^3 + 4b + 3) + (2b^2 - 11) = 21b^3 + 2b^2 + 4b - 11$$

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**Find the sum of polynomials**

1.  $(5x^2 + 2x + 3) + (x^2 - x + 1) =$  \_\_\_\_\_

2.  $(-3x^2 + 4x - 3) + (-8x + 9) =$  \_\_\_\_\_

3.  $(s^3 + 2s + 1) + (s^2 + 2s) =$  \_\_\_\_\_

4.  $(5a^3 - a^2 + 9) + (3a^2 - 2a + 1) =$  \_\_\_\_\_

5.  $(a^4 + 2a^2 + 4) + (a^3 - 5a^2) =$  \_\_\_\_\_

6.  $(-u^2 + 9u + 3) + (u^3 - 1) =$  \_\_\_\_\_

7.  $(-10u^2 + 2u - 3) + (u^2 + 3u + 1) =$  \_\_\_\_\_

8.  $(81y^3 + 9y + 27) + (3y^2 - 9) =$  \_\_\_\_\_

9.  $(7a^2 + 3a - 2) + (-10a^2 + 2a) =$  \_\_\_\_\_

10.  $(21b^3 + 4b + 3) + (2b^2 - 11) =$  \_\_\_\_\_

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## Answers

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

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

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

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

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

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

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

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

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

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

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**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.  $(4t^3 + 7t^2 + 3t) + (-2t^2 + 2t - 5) =$  \_\_\_\_\_