

Student Name: _____

Score: _____

Subtract the polynomials

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

2. $(y^3 + 3y^2 + y - 13) - (3y^4 + 4y^2 - 12) =$

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

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

5. $(3t^2 + 5t - 6) - (2t^2 + 3t - 3) =$

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

7. $(10r^4 + 3r^2 + 11) - (r^3 + 3) =$

8. $(8z^3 + 12z + 9) - (z^2 - 5z + 1) =$

9. $(15u^5 + 11u^2 + 5) - (2u^4 - 12) =$

10. $(8v^2 + 5v + 3) - (5v^3 - 8v + 1) =$

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Answers

- $(5x^3 + 3x^2 + 1) - (2x^3 - x^2 + 3) = 3x^3 + 4x^2 - 2$
- $(y^3 + 3y^2 + y - 13) - (3y^4 + 4y^2 - 12) = -3y^4 + y^3 - y^2 + y - 1$
- $(3p^4 + 2p^3 + 4p) - (p^5 + 2p^4 + 1) = -p^5 + p^4 + 2p^3 + 4p - 1$
- $(3s^2 + 4s + 3) - (6s^3 - 8) = -6s^3 + 3s^2 + 4s + 11$
- $(3t^2 + 5t - 6) - (2t^2 + 3t - 3) = t^2 + 2t - 3$
- $(q + 3) - (q^2 + 6q + 9) = -q^2 - 5q - 6$
- $(10r^4 + 3r^2 + 11) - (r^3 + 3) = 10r^4 - r^3 + 3r^2 + 8$
- $(8z^3 + 12z + 9) - (z^2 - 5z + 1) = 8z^3 - z^2 + 17z + 8$
- $(15u^5 + 11u^2 + 5) - (2u^4 - 12) = 15u^5 - 2u^4 + 11u^2 + 17$
- $(8v^2 + 5v + 3) - (5v^3 - 8v + 1) = -5v^3 + 8v^2 + 13v + 2$