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

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

2. $(y^3 + 3y^2 + y - 13) - (3y^4 + 4y^2 - 12)$ = $\mathbf{-3y^4 + y^3 - y^2 + y - 1}$

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

4. $(3s^2 + 4s + 3) - (6s^3 - 8)$ = $\mathbf{-6s^3 + 3s^2 + 4s + 11}$

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

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

7. $(10r^4 + 3r^2 + 11) - (r^3 + 3)$ = $\mathbf{10r^4 - r^3 + 3r^2 + 8}$

8. $(8z^3 + 12z + 9) - (z^2 - 5z + 1)$ = $\mathbf{8z^3 - z^2 + 17z + 8}$

9. $(15u^5 + 11u^2 + 5) - (2u^4 - 12)$ = $\mathbf{15u^5 - 2u^4 + 11u^2 + 17}$

10. $(8v^2 + 5v + 3) - (5v^3 - 8v + 1)$ = $\mathbf{-5v^3 + 8v^2 + 13v + 2}$