

Name : _____

Subtracting Polynomials

Single-variable: L1S1

Subtract the polynomials.

1) $(-9n^2 - 5n^3 - 3n) - (-10n^3 - 12n - 7n^2)$

2) $(-2d^4 - 6 + d^2 - 8d + 2d^5) - (7d^2 + d^5 + 4d - 1)$

3) $(8z^5 - 9z^2 + z + z^6 + 17z^3) - (11z^3 + 10z^6 - 26z)$

4) $(-10y + 2 - y^3 - y^4) - (-y^4 - 10y - y^2 + 2 - y^3)$

5) $(7u^3 - 10 - u + 19u^2) - (-10 - 4u^4 + 7u^3 - u)$

6) $(18q^5 - 17q^3 + 9 - 15q^6) - (-2q^3 - q^2 + 13q^4)$

7) $(19r^4 + 33r^6 + 24r^2) - (r^6 + 25r^2 + r^4 + 36)$

8) $(-3b^5 + 8b^3 - 6b^6) - (4b^3 - 6b^6 + 7b - b^2 + 2b^5)$

Name : _____

Answer key

Subtracting Polynomials

Single-variable: L1S1

Subtract the polynomials.

1) $(-9n^2 - 5n^3 - 3n) - (-10n^3 - 12n - 7n^2)$

$5n^3 - 2n^2 + 9n$

2) $(-2d^4 - 6 + d^2 - 8d + 2d^5) - (7d^2 + d^5 + 4d - 1)$

$d^5 - 2d^4 - 6d^2 - 12d - 5$

3) $(8z^5 - 9z^2 + z + z^6 + 17z^3) - (11z^3 + 10z^6 - 26z)$

$-9z^6 + 8z^5 + 6z^3 - 9z^2 + 27z$

4) $(-10y + 2 - y^3 - y^4) - (-y^4 - 10y - y^2 + 2 - y^3)$

y^2

5) $(7u^3 - 10 - u + 19u^2) - (-10 - 4u^4 + 7u^3 - u)$

$4u^4 + 19u^2$

6) $(18q^5 - 17q^3 + 9 - 15q^6) - (-2q^3 - q^2 + 13q^4)$

$-15q^6 + 18q^5 - 13q^4 - 15q^3 + q^2 + 9$

7) $(19r^4 + 33r^6 + 24r^2) - (r^6 + 25r^2 + r^4 + 36)$

$32r^6 + 18r^4 - r^2 - 36$

8) $(-3b^5 + 8b^3 - 6b^6) - (4b^3 - 6b^6 + 7b - b^2 + 2b^5)$

$-5b^5 + 4b^3 + b^2 - 7b$