

Name : _____

Subtracting Polynomials

Multi-variable: L1S1

Subtract the polynomials.

1) $(7c^3d^2 + 2bc^2d + ab) - (-4c^3d^2 + ab - 7bc^2d)$ 2) $(15xy + 6x + 4y + z + 1) - (11 + 3x + 8xy + y)$

3) $(9m^6 - 1 - mn^4 + 10n^2) - (10n^2 + 9m^6 - mn^4 - 1)$ 4) $(-4s^2t^3 - 6s - 18 - s^2t^2u^2) - (s^2t^2u^2 - 4s^2t^3 - 14)$

5) $(6p^4 - 2r^6 - 3q^2 + s^3 - r^2) - (q^2 + r^4 + 5p^4 - r^6 - s^3)$ 6) $(b - 6c + a^3b + abc) - (-6a - abc - c - 7b - a^3b)$

7) $(-8gh^3 - 20g^5h - 2) - (-12g^5h - 3g - 35gh^3 - 32)$ 8) $(7w^3 - v^4 + 9u^3) - (7w^3 - 5uv + 2v^4 - u^3 - u^4)$

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Answer key

Subtracting Polynomials

Multi-variable: L1S1

Subtract the polynomials.

1) $(7c^3d^2 + 2bc^2d + ab) - (-4c^3d^2 + ab - 7bc^2d)$

$11c^3d^2 + 9bc^2d$

2) $(15xy + 6x + 4y + z + 1) - (11 + 3x + 8xy + y)$

$7xy + 3x + 3y + z - 10$

3) $(9m^6 - 1 - mn^4 + 10n^2) - (10n^2 + 9m^6 - mn^4 - 1)$

0

4) $(-4s^2t^3 - 6s - 18 - s^2t^2u^2) - (s^2t^2u^2 - 4s^2t^3 - 14)$

$-2s^2t^2u^2 - 6s - 4$

5) $(6p^4 - 2r^6 - 3q^2 + s^3 - r^2) - (q^2 + r^4 + 5p^4 - r^6 - s^3)$

$-r^6 + p^4 - r^4 + 2s^3 - 4q^2 - r^2$

6) $(b - 6c + a^3b + abc) - (-6a - abc - c - 7b - a^3b)$

$2a^3b + 2abc + 6a + 8b - 5c$

7) $(-8gh^3 - 20g^5h - 2) - (-12g^5h - 3g - 35gh^3 - 32)$

$-8g^5h + 27gh^3 + 3g + 30$

8) $(7w^3 - v^4 + 9u^3) - (7w^3 - 5uv + 2v^4 - u^3 - u^4)$

$u^4 - 3v^4 + 10u^3 + 5uv$