

Name : _____

Adding Polynomials

Multi-variable: S1

Add the polynomials.

1) $-z^4 - 3xyz - x^6 - 4wx - 6y^3$, $-wx + 9z^4 + 2x^6$, $4y^3 + 2x^6 - 8wx - 5 - 6xyz$

2) $-7c^5d + 11 + 4a^4 - 18d^2$, $-b^3 + 18d^2 - 12 + c^5d - 4a^4$, $1 + c^5d + b^3$

3) $14 + u^3 + 2uv$ + $16u^3 + 3v - 10u^2$

4) $10rs^2t + r^2s^3 - 1$ + $2s - 1 + 6rs^2t + 2t^3$

5) $-12h^3 + 4k - h$ + $-5 - 14k - h^3$

6) $-38p^6 - 4p^3qr^3 - 7pq^2$, $-15p^3 - pq^2 - 6p^5$, $pq^2 + 2q^4 + 38p^6 + p^3qr^3$

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Answer key

Adding Polynomials

Multi-variable: S1

Add the polynomials.

1) $-z^4 - 3xyz - x^6 - 4wx - 6y^3$, $-wx + 9z^4 + 2x^6$, $4y^3 + 2x^6 - 8wx - 5 - 6xyz$

$3x^6 + 8z^4 - 2y^3 - 9xyz - 13wx - 5$

2) $-7c^5d + 11 + 4a^4 - 18d^2$, $-b^3 + 18d^2 - 12 + c^5d - 4a^4$, $1 + c^5d + b^3$

$-5c^5d$

3) $14 + u^3 + 2uv$, $16u^3 + 3v - 10u^2$

$11uv + 3v + 14$

4) $10rs^2t + r^2s^3 - 1$, $2s - 1 + 6rs^2t + 2t^3$

$36r^2s^3 + 17rs^2t$

5) $-12h^3 + 4k - h$, $10g^4 - 14h^3 - 10k - 9$

$10g^4 - 14h^3 - 10k - 9$

6) $-38p^6 - 4p^3qr^3 - 7pq^2$, $-15p^3 - pq^2 - 6p^5$, $pq^2 + 2q^4 + 38p^6 + p^3qr^3$

$-3p^3qr^3 - 6p^5 + 2q^4 - 15p^3 - 7pq^2$

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