

Name : _____

Adding Polynomials

Single-variable: S2

Add the polynomials.

1) $-21y^2 - 18y - 5 - 2y^5$, $16y^5 - 2 - y^2 + 12y + 10y^3$, $4y^2 - 6 - 2y^3$

2) $2s^6 - 6s^2 - 9s$, $11s - s^6 - 2s^3 + 2 - 5s^2$, $-s^6 - 3s + 2s^3$

3) $-16v^4 + 26 + 10v^6$

$5 - 10v^6 + 4v^2 - 8v^5$

4) $19n + 2n^2 - 3n^5$

$n^2 - 2n^5 - 30 - n^3$

5) $5k^5 + 2k^6 + 28$

$-9k^2 - 5k^5$

6) $c^3 - 9c + 3c^4 + 7c^2 - 8c^5$, $3c^4 - 2c^3 + c^6 - c^2 - 4c^5$, $9c^4 - c^3 + 5c^6 - 8c^2 + c$

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Name : _____

Answer key

Adding Polynomials

Single-variable: S2

Add the polynomials.

1) $-21y^2 - 18y - 5 - 2y^5$, $16y^5 - 2 - y^2 + 12y + 10y^3$, $4y^2 - 6 - 2y^3$

$14y^5 + 8y^3 - 18y^2 - 6y - 13$

2) $2s^6 - 6s^2 - 9s$, $11s - s^6 - 2s^3 + 2 - 5s^2$, $-s^6 - 3s + 2s^3$

$-11s^2 - s + 2$

3) $-16v^4 + 26 + 7v^3$

$7v^3 + 41$

4) $19n + 2n^2 - 3n^3$

$-9n^3 + 19n^2 + 19n$

5) $5k^5 + 2k^6 + 28k$

$3k$

6) $c^3 - 9c + 3c^4 + 7c^2 - 8c^5$, $3c^4 - 2c^3 + c^6 - c^2 - 4c^5$, $9c^4 - c^3 + 5c^6 - 8c^2 + c$

$6c^6 - 12c^5 + 15c^4 - 2c^3 - 2c^2 - 8c$

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