

Name : _____

Adding Polynomials

Single-variable: L1S3

Add the polynomials.

1) $-12t^6 + 39t^4 - 7t^5$, $11t^3 + 6t^5 - 14t^6 - 8t^4$

2) $-r^4 - 10 + r^2 + 14r^3$, $-21r^3 + 3 + 31r + 2r^4 - r^2$

3) $24 - 19u - 36u^2$, $12u^3 - 7k^3$, $4k^5 - 6k^6 + 3k^2 - k^4$

5) $30d^3 + d^2 - 2d^4$, $19d^2$, $-x^2 - 15x^3 - 27x^4 + 3$

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

8) $-22n^3 - 3n - n^2$, $-10n - 33n^2 - 4n^3$

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Answer key

Adding Polynomials

Single-variable: L1S3

Add the polynomials.

1) $-12t^6 + 39t^4 - 7t^5$, $11t^3 + 6t^5 - 14t^6 - 8t^4$

2) $-r^4 - 10 + r^2 + 14r^3$, $-21r^3 + 3 + 31r + 2r^4 - r^2$

$-26t^6 - t^5 + 31t^4 + 11t^3$

$r^4 - 7r^3 + 31r - 7$

3) $24 - 19u - 36u^2$, $12u^2 - 7k^3$, $4k^5 - 6k^6 + 3k^2 - k^4$

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$-24u^2 - 13u$

$7k^3 + 5k^2$

5) $30d^3 + d^2 - 2d^4$, $19d^5 - 2d^4 + 50d^3 + 2d^2$, $-x^2 - 15x^3 - 27x^4 + 3$

$2d^5 - 2d^4 + 50d^3 + 2d^2$

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

8) $-22n^3 - 3n - n^2$, $-10n - 33n^2 - 4n^3$

$5p^4 + 7p^3 + 6p^2 + 3p + 7$

$-26n^3 - 34n^2 - 13n$