

Name : _____

Adding Polynomials

Single-variable: L1S5

Arrange and add the polynomials.

1) $k^5 - 3k + k^2 - 6k^4 + 24k^3$, $-5k^3 + 38k^5 - k + 20$ 2) $-3b^6 + 5b^4 - 2b^5$, $2b^3 - b^5 - 3b^6 - 5b^4 + b^2$

3) $4q^3 + q^6 - 5q^2 + 17$,

PREVIEW

$6w^2 + w^3 + 13$

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5) $4z^4 + z^3 - 2z^5 + z^6 + 2$

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$-3u^3$, $u^4 + 5u^3 + u^2 + 3u$

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7) $8h^3 + 29 + h^4$, $-h^4 - 39 - 8h^3 - 16h^2$

8) $-m^5 - 34m + 18m^4 - 9m^3$, $7m^3 - 4m^5 - m^4$

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Answer key

Adding Polynomials

Single-variable: L1S5

Arrange and add the polynomials.

1) $k^5 - 3k + k^2 - 6k^4 + 24k^3$, $-5k^3 + 38k^5 - k + 20$ 2) $-3b^6 + 5b^4 - 2b^5$, $2b^3 - b^5 - 3b^6 - 5b^4 + b^2$

$$\begin{array}{r} k^5 - 6k^4 + 24k^3 + k^2 - 3k \\ (+) \quad 38k^5 \quad \quad - 5k^3 \quad \quad - k + 20 \\ \hline 39k^5 - 6k^4 + 19k^3 + k^2 - 4k + 20 \end{array}$$

$$\begin{array}{r} -3b^6 - 2b^5 + 5b^4 \\ (+) \quad -3b^6 - b^5 - 5b^4 + 2b^3 + b^2 \\ \hline -6b^6 - 3b^5 \quad \quad + 2b^3 + b^2 \end{array}$$

3) $4q^3 + q^6 - 5q^2 + 17$,

$$\begin{array}{r} q^6 + 4q^3 - 5 \\ (+) \quad -q^6 + q^3 + 3 \\ \hline 5q^3 - 2 \end{array}$$

PREVIEW

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$6w^2 + w^3 + 13$

$$\begin{array}{r} - 26 \\ + 13 \\ \hline - 13 \end{array}$$

5) $4z^4 + z^3 - 2z^5 + z^6 + 2$

$$\begin{array}{r} z^6 - 2z^5 + 4z^4 + 2 \\ (+) \quad z^6 - z^5 - 4z^4 - 2 \\ \hline 2z^6 - 3z^5 \end{array}$$

$3u^3$, $u^4 + 5u^3 + u^2 + 3u$

$$\begin{array}{r} + 2u^2 + u + 9 \\ + u^2 + 3u \\ \hline + 3u^2 + 4u + 9 \end{array}$$

7) $8h^3 + 29 + h^4$, $-h^4 - 39 - 8h^3 - 16h^2$

$$\begin{array}{r} h^4 + 8h^3 \quad \quad + 29 \\ (+) \quad -h^4 - 8h^3 - 16h^2 - 39 \\ \hline - 16h^2 - 10 \end{array}$$

8) $-m^5 - 34m + 18m^4 - 9m^3$, $7m^3 - 4m^5 - m^4$

$$\begin{array}{r} -m^5 + 18m^4 - 9m^3 - 34m \\ (+) \quad -4m^5 - m^4 + 7m^3 \\ \hline -5m^5 + 17m^4 - 2m^3 - 34m \end{array}$$