

Name : _____

Adding Polynomials

Single-variable: L1S2

Arrange and add the polynomials.

1) $-u^4 - 8u^3 - 2u^6 - u^5$, $3u^5 + u^6 + 7u^4 + u^2 + u^3$ 2) $6n^5 - 28 + 4n^3$, $-9n^2 + 28 + n - 6n^5 - 4n^3$

3) $7k - 26k^2 - 20$, 26

$-2b^2$, $-23b^3 - b^2 - 2b^4$

5) $5z + 36 + 8z^3 + 2z^2$,

$-7v^2 + 4v^6 - 34v^5$

7) $-p^4 + 24p^2 - 8p^3 - 16p^5$, $10p^2 + 7p^3 + 3p^4$

8) $12 + t^4 - t^2 - 6t^5 + t$, $3t^3 + 3t + 2t^4 - t^5 - t^2$

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Name : _____

Answer key

Adding Polynomials

Single-variable: L1S2

Arrange and add the polynomials.

1) $-u^4 - 8u^3 - 2u^6 - u^5$, $3u^5 + u^6 + 7u^4 + u^2 + u^3$ 2) $6n^5 - 28 + 4n^3$, $-9n^2 + 28 + n - 6n^5 - 4n^3$

$$\begin{array}{r} -2u^6 - u^5 - u^4 - 8u^3 \\ (+) \quad u^6 + 3u^5 + 7u^4 + u^3 + u^2 \\ \hline -u^6 + 2u^5 + 6u^4 - 7u^3 + u^2 \end{array}$$

$$\begin{array}{r} 6n^5 + 4n^3 - 28 \\ (+) \quad -6n^5 - 4n^3 - 9n^2 + n + 28 \\ \hline -9n^2 + n \end{array}$$

3) $7k - 26k^2 - 20$, $26k^2 - 2b^2$, $-23b^3 - b^2 - 2b^4$

$$\begin{array}{r} -26k^2 + 7k - 20 \\ (+) \quad 26k^2 - 3k + 20 \\ \hline 4k - 20 \end{array}$$

$$\begin{array}{r} b^3 - 2b^2 - 4b - 13 \\ b^3 - b^2 \\ \hline b^3 - 3b^2 - 4b - 13 \end{array}$$

5) $5z + 36 + 8z^3 + 2z^2$, $7z^3 + 7v^2$, $-7v^2 + 4v^6 - 34v^5$

$$\begin{array}{r} 8z^3 + 2z^2 + 5z + 36 \\ (+) \quad -9z^3 - z^2 - 5z - 36 \\ \hline -z^3 + z^2 \end{array}$$

$$\begin{array}{r} 7v^5 + 7v^2 \\ v^5 - 7v^2 \\ \hline \end{array}$$

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7) $-p^4 + 24p^2 - 8p^3 - 16p^5$, $10p^2 + 7p^3 + 3p^4$ 8) $12 + t^4 - t^2 - 6t^5 + t$, $3t^3 + 3t + 2t^4 - t^5 - t^2$

$$\begin{array}{r} -16p^5 - p^4 - 8p^3 + 24p^2 \\ (+) \quad 3p^4 + 7p^3 + 10p^2 \\ \hline -16p^5 + 2p^4 - p^3 + 34p^2 \end{array}$$

$$\begin{array}{r} -6t^5 + t^4 - t^2 + t + 12 \\ (+) \quad -t^5 + 2t^4 + 3t^3 - t^2 + 3t \\ \hline -7t^5 + 3t^4 + 3t^3 - 2t^2 + 4t + 12 \end{array}$$