

Name : _____

Adding Polynomials

Multi-variable: L1S2

Arrange and add the polynomials.

1) $-35x + 9xyz - 18$, $29xyz + 18 + 7yz + 35x$

2) $-p^3q^2 + p + 4q^6 - p^2q^2 + q^3$, $q^6 + 6p^2q^2 - p$

3) $-4ab^2 - a^4 - 3 - 6abc^3$

PREVIEW

$28u^3 + u + 7u^2v + uv + 5$

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5) $-2w^4 + wx^3y - 8z^2 - 5x$

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4 , $6g^3 + k^4 + 7g^2 + 1 + 4h$

7) $mn + 26n^2 - n + 13$, $9mn - 37 - 4n - 15n^2$

8) $-s^2tu - 8r^3s + s^5$, $-s^2tu - 2s^5 - 12r^3s$

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Answer key

Adding Polynomials

Multi-variable: L1S2

Arrange and add the polynomials.

1) $-35x + 9xyz - 18$, $29xyz + 18 + 7yz + 35x$

$$\begin{array}{r} 9xyz \quad - 35x - 18 \\ (+) \quad 29xyz + 7yz + 35x + 18 \\ \hline 38xyz + 7yz \end{array}$$

2) $-p^3q^2 + p + 4q^6 - p^2q^2 + q^3$, $q^6 + 6p^2q^2 - p$

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

3) $-4ab^2 - a^4 - 3 - 6abc^3$

$$\begin{array}{r} -6abc^3 - a^4 - 3 \\ (+) \quad -abc^3 - 3 \\ \hline -7abc^3 - a^4 - 6 \end{array}$$

$28u^3 + u + 7u^2v + uv + 5$

$$\begin{array}{r} 2v + 4v^2 + 6u \\ 2v + uv + u + 5 \\ \hline 2v + 4v^2 + uv + 7u + 5 \end{array}$$

5) $-2w^4 + wx^3y - 8z^2 - 5x$

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

$4g^4 + 6g^3 + k^4 + 7g^2 + 1 + 4h$

$$\begin{array}{r} -7g^2 - 4h \\ + 7g^2 + 4h + 1 \\ \hline 1 \end{array}$$

PREVIEW

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7) $mn + 26n^2 - n + 13$, $9mn - 37 - 4n - 15n^2$

$$\begin{array}{r} 26n^2 + mn - n + 13 \\ (+) \quad -15n^2 + 9mn - 4n - 37 \\ \hline 11n^2 + 10mn - 5n - 24 \end{array}$$

8) $-s^2tu - 8r^3s + s^5$, $-s^2tu - 2s^5 - 12r^3s$

$$\begin{array}{r} s^5 - 8r^3s - s^2tu \\ (+) \quad -2s^5 - 12r^3s - s^2tu \\ \hline -s^5 - 20r^3s - 2s^2tu \end{array}$$