

Name : _____

Adding Polynomials

Multi-variable: L154

Arrange and add the polynomials.

1) $-8t^2uv^2 - u - t^3 - 5u^2 - v^4$, $-t^3 - 4u - t^2uv^2 - u^2$ 2) $-m^4 + 7m^4n + 2n^3$, $5 + m^4n - 2n^3 + m^4 + n$

3) $5pq^2 + q^5 + p^2 + p^4 + c$

s^4 , $-7t^2 + s^3t^3 - rst$

5) $9k^2 - g^6 + 6g^4 + 2 + g$

$2uv$, $2uv + 1 + 3vw^2 + 5v$

7) $-9a^2b^3 - 13c - d^3$, $8d^3 + 13c + 9a^2b^3$

8) $w^3x - 5xy + z + y^4$, $y^4 - 4xy - 6w^3x - 7 - 3z$

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Answer key

Adding Polynomials

Multi-variable: L154

Arrange and add the polynomials.

1) $-8t^2uv^2 - u - t^3 - 5u^2 - v^4$, $-t^3 - 4u - t^2uv^2 - u^2$ 2) $-m^4 + 7m^4n + 2n^3$, $5 + m^4n - 2n^3 + m^4 + n$

$$\begin{array}{r} -8t^2uv^2 - v^4 - t^3 - 5u^2 - u \\ (+) \quad -t^2uv^2 \quad - t^3 - u^2 - 4u \\ \hline -9t^2uv^2 - v^4 - 2t^3 - 6u^2 - 5u \end{array}$$

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

3) $5pq^2 + q^5 + p^2 + p^4 + c$

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

s^4 , $-7t^2 + s^3t^3 - rst$

$$\begin{array}{r} s^4 + rst + 7t^2 \\ - rst - 7t^2 \\ \hline s^4 \end{array}$$

5) $9k^2 - g^6 + 6g^4 + 2 + g$

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

$2uv$, $2uv + 1 + 3vw^2 + 5v$

$$\begin{array}{r} 2uv - 5v - 33 \\ 2uv + 5v + 1 \\ \hline - 32 \end{array}$$

7) $-9a^2b^3 - 13c - d^3$, $8d^3 + 13c + 9a^2b^3$

$$\begin{array}{r} -d^3 - 9a^2b^3 - 13c \\ (+) \quad 8d^3 + 9a^2b^3 + 13c \\ \hline 7d^3 \end{array}$$

8) $w^3x - 5xy + z + y^4$, $y^4 - 4xy - 6w^3x - 7 - 3z$

$$\begin{array}{r} y^4 + w^3x - 5xy + z \\ (+) \quad y^4 - 6w^3x - 4xy - 3z - 7 \\ \hline 2y^4 - 5w^3x - 9xy - 2z - 7 \end{array}$$

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