

Name : _____

Adding Polynomials

Multi-variable: L155

Arrange and add the polynomials.

1) $-7xyz^2 - 5 - 3y^4z - 2z$, $5 + 2xyz^2 + 2z + 3y^4z$ 2) $2k^5 - g^4 + 2h^6 - k^3 + h^2$, $8 - k^3 + k^5 - g^4 - h^6$

3) $pq^2r + 4r - qr^4 - 2p^3 +$

$vx + 9$, $v^4wx - 2 - 4w^2x$

5) $st + t^3u^3 + u^2v + st^4$,

$-7m + n^3 + 4mn - 15$

7) $-4bcd - 5a^5 - b^3c$, $-8b^3c - 3a^5 - 6bcd$

8) $6s + 5s^4t + 12$, $-2t - 7s - s^4t - rs^4 - 12$

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Answer key

Adding Polynomials

Multi-variable: L155

Arrange and add the polynomials.

1) $-7xyz^2 - 5 - 3y^4z - 2z$, $5 + 2xyz^2 + 2z + 3y^4z$ 2) $2k^5 - g^4 + 2h^6 - k^3 + h^2$, $8 - k^3 + k^5 - g^4 - h^6$

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

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

3) $pq^2r + 4r - qr^4 - 2p^3 +$

$$\begin{array}{r} -qr^4 + pq^2r - \\ (+) \quad qr^4 - pq^2r + \end{array}$$

$vx + 9$, $v^4wx - 2 - 4w^2x$

$$\begin{array}{r} 4w^2x + 37v^2 + 9 \\ 4w^2x - 2 \\ \hline + 37v^2 + 7 \end{array}$$

5) $st + t^3u^3 + u^2v + st^4$,

$$\begin{array}{r} t^3u^3 + st^4 + \\ (+) \quad t^3u^3 + st^4 + \\ \hline 2t^3u^3 + 2st^4 + \end{array}$$

$-7m + n^3 + 4mn - 15$

$$\begin{array}{r} n - 5m \\ n - 7m - 15 \\ \hline n - 12m - 15 \end{array}$$

7) $-4bcd - 5a^5 - b^3c$, $-8b^3c - 3a^5 - 6bcd$

$$\begin{array}{r} -5a^5 - b^3c - 4bcd \\ (+) \quad -3a^5 - 8b^3c - 6bcd \\ \hline -8a^5 - 9b^3c - 10bcd \end{array}$$

8) $6s + 5s^4t + 12$, $-2t - 7s - s^4t - rs^4 - 12$

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

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