

Name : _____

Adding Polynomials

Multi-variable: L2S1

Arrange and add the polynomials.

1) $-\frac{2}{5}ab^2 - 5abc - \frac{1}{5}b^4$, $-\frac{4}{5}b^4 - 3abc - a^3bc$

2) $-\frac{5}{9}p^3 + \frac{5}{8} - \frac{1}{4}r^5$, $\frac{1}{6}p^3q^2 + p^3 + \frac{1}{4}r^5 - \frac{3}{8}$

3) $v^5 + 8u^6 + w^4 + 22 + 6v$

$+ z^4$, $8y^5 - \frac{1}{2}xy^5 - 7x^2y - z^4$

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5) $-r^4 - s^5 - rst^2 - \frac{2}{7}r$, $\frac{1}{5}$

$\frac{1}{3}bc$, $\frac{1}{3}bc - \frac{3}{5}d - \frac{2}{9}$

7) $3m^3 + 6n^4 + 34$, $-34 - \frac{4}{9}mn - 4m^2 - 6n^4 - 3m^3$

8) $-g + h + g^3h^3 - 3k + k^4$, $-\frac{5}{6}k + \frac{5}{9}g^3h^3 + \frac{4}{7}g$

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Answer key

Adding Polynomials

Multi-variable: L2S1

Arrange and add the polynomials.

1) $-\frac{2}{5}ab^2 - 5abc - \frac{1}{5}b^4$, $-\frac{4}{5}b^4 - 3abc - a^3bc$

$$\begin{array}{r} -\frac{1}{5}b^4 - \frac{2}{5}ab^2 - 5abc \\ (+) -a^3bc - \frac{4}{5}b^4 - 3abc \\ \hline -a^3bc - b^4 - \frac{2}{5}ab^2 - 8abc \end{array}$$

2) $-\frac{5}{9}p^3 + \frac{5}{8} - \frac{1}{4}r^5$, $\frac{1}{6}p^3q^2 + p^3 + \frac{1}{4}r^5 - \frac{3}{8}$

$$\begin{array}{r} -\frac{1}{4}r^5 - \frac{5}{9}p^3 + \frac{5}{8} \\ (+) \frac{1}{4}r^5 + \frac{1}{6}p^3q^2 + p^3 - \frac{3}{8} \\ \hline \frac{1}{6}p^3q^2 + \frac{4}{9}p^3 + \frac{1}{4} \end{array}$$

3) $v^5 + 8u^6 + w^4 + 22 + 6v^5$

$$\begin{array}{r} 8u^6 + v^5 + 6v^5 \\ (+) u^6 + 12v^5 + 22 + w^4 \\ \hline 9u^6 + 13v^5 + 22 + w^4 \end{array}$$

$+ z^4$, $8y^5 - \frac{1}{2}xy^5 - 7x^2y - z^4$

$$\begin{array}{r} y^5 + z^4 + 7x^2y \\ (+) y^5 - z^4 - 7x^2y \\ \hline 0 \end{array}$$

5) $-r^4 - s^5 - rst^2 - \frac{2}{7}r$, $\frac{1}{5}r^4 - s^5 - rst^2$

$$\begin{array}{r} -s^5 - r^4 - rst^2 \\ (+) \frac{5}{6}s^5 + \frac{1}{9}r^4 + \frac{1}{5}rst^2 \\ \hline -\frac{1}{6}s^5 - \frac{8}{9}r^4 - \frac{4}{45}rst^2 \end{array}$$

$\frac{1}{3}bc$, $\frac{1}{3}bc - \frac{3}{5}d - \frac{2}{9}$

$$\begin{array}{r} bc + \frac{3}{5}d + \frac{2}{9} \\ (+) bc - \frac{3}{5}d - \frac{2}{9} \\ \hline 2bc \end{array}$$

7) $3m^3 + 6n^4 + 34$, $-34 - \frac{4}{9}mn - 4m^2 - 6n^4 - 3m^3$

$$\begin{array}{r} 6n^4 + 3m^3 + 34 \\ (+) -6n^4 - 3m^3 - 4m^2 - \frac{4}{9}mn - 34 \\ \hline -4m^2 - \frac{4}{9}mn \end{array}$$

8) $-g + h + g^3h^3 - 3k + k^4$, $-\frac{5}{6}k + \frac{5}{9}g^3h^3 + \frac{4}{7}g$

$$\begin{array}{r} g^3h^3 + k^4 - g + h - 3k \\ (+) \frac{5}{9}g^3h^3 + \frac{4}{7}g - \frac{5}{6}k \\ \hline \frac{14}{9}g^3h^3 + k^4 - \frac{3}{7}g + h - \frac{23}{6}k \end{array}$$

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