

Name : _____

Adding Polynomials

Multi-variable: L2S3

Arrange and add the polynomials.

1) $-2k - 4h^3 + 9k^5 + g^2 - g^5h$, $g^5h - g^2h^3 + 4h^3$

2) $8y + z^4 + 19y^5 + x^6 + 2z^3$, $\frac{4}{9}z^4 - y^5 - z^3 - \frac{1}{9}x^6$

3) $\frac{3}{7} + a^4b^2 + \frac{1}{7}b + 6ab^3$

PREVIEW

$\frac{1}{3}b^4 - \frac{2}{5}d^6 + c^3 - \frac{5}{8}c^2d$

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5) $-4n^2 - m - 4n^4 - m^6$,

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$\frac{3}{4}v^4$, $-\frac{1}{4}v^4 - \frac{1}{5} + \frac{5}{6}v^3wx$

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

8) $\frac{7}{9}st^2 + \frac{1}{2}s^4 - 5$, $-\frac{1}{2}s^4 - \frac{7}{9}st^2 + 7u - 6stu + 5$

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Answer key

Adding Polynomials

Multi-variable: L2S3

Arrange and add the polynomials.

1) $-2k - 4h^3 + 9k^5 + g^2 - g^5h$, $g^5h - g^2h^3 + 4h^3$

$$\begin{array}{r} -g^5h + 9k^5 \quad -4h^3 + g^2 - 2k \\ (+) \quad g^5h \quad -g^2h^3 + 4h^3 \\ \hline 9k^5 - g^2h^3 \quad + g^2 - 2k \end{array}$$

2) $8y + z^4 + 19y^5 + x^6 + 2z^3$, $\frac{4}{9}z^4 - y^5 - z^3 - \frac{1}{9}x^6$

$$\begin{array}{r} x^6 + 19y^5 + z^4 + 2z^3 + 8y \\ (+) \quad -\frac{1}{9}x^6 - y^5 + \frac{4}{9}z^4 - z^3 \\ \hline \frac{8}{9}x^6 + 18y^5 + \frac{13}{9}z^4 + z^3 + 8y \end{array}$$

3) $\frac{3}{7} + a^4b^2 + \frac{1}{7}b + 6ab^3$

$$\begin{array}{r} a^4b^2 + 6ab^3 \\ (+) \quad \frac{2}{7}a^4b^2 \\ \hline \frac{9}{7}a^4b^2 + 6ab^3 \end{array}$$

$\frac{1}{3}b^4 - \frac{2}{5}d^6 + c^3 - \frac{5}{8}c^2d$

$$\begin{array}{r} b^4 - c^3 \\ b^4 + c^3 - \frac{5}{8}c^2d \\ \hline -\frac{5}{8}c^2d \end{array}$$

5) $-4n^2 - m - 4n^4 - m^6$,

$$\begin{array}{r} -m^6 - 4n^4 - \\ (+) \quad -4m^6 \quad - \\ \hline -5m^6 - 4n^4 - \end{array}$$

$\frac{3}{4}v^4$, $-\frac{1}{4}v^4 - \frac{1}{5} + \frac{5}{6}v^3wx$

$$\begin{array}{r} \frac{3}{4}v^4 + \frac{2}{3}v - \frac{4}{5} \\ \frac{1}{4}v^4 \quad -\frac{1}{5} \\ \hline \frac{1}{2}v^4 + \frac{2}{3}v - 1 \end{array}$$

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

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

8) $\frac{7}{9}st^2 + \frac{1}{2}s^4 - 5$, $-\frac{1}{2}s^4 - \frac{7}{9}st^2 + 7u - 6stu + 5$

$$\begin{array}{r} \frac{1}{2}s^4 + \frac{7}{9}st^2 \quad - 5 \\ (+) \quad -\frac{1}{2}s^4 - \frac{7}{9}st^2 - 6stu + 7u + 5 \\ \hline - 6stu + 7u \end{array}$$

PREVIEW

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