

Name : _____

Adding Polynomials

Single-variable: L2S2

Arrange and add the polynomials.

1) $6 + 7b^4 + 10b^3 + b^6$, $8b - b^6 - 6 - \frac{2}{5}b^4 + b^5$

2) $\frac{3}{4}y^2 + \frac{1}{2}y^3 + \frac{4}{7}y + \frac{2}{9}$, $-\frac{1}{3}y - \frac{6}{7}y^2 - \frac{3}{8}y^3$

3) $\frac{7}{8}g^4 - 8g - 26 - \frac{5}{8}g^2$,

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$2h + 2h^4 + h^3 - \frac{1}{4}$

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5) $3r^6 + 3r^4 + 2r^5 - r^2 - 8r^3$

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$-\frac{3}{4}q^2$, $\frac{2}{5}q^3 + q^2 - \frac{3}{7}$

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7) $\frac{5}{9} + \frac{2}{3}k^4 + \frac{2}{7}k$, $\frac{1}{3}k^4 - \frac{1}{9} - \frac{2}{7}k$

8) $-2s^4 - s^5 - \frac{5}{6}s$, $-7s^5 - 2s^3 - \frac{1}{6}s - 5s^4 - s^2$

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Answer key

Adding Polynomials

Single-variable: L2S2

Arrange and add the polynomials.

1) $6 + 7b^4 + 10b^3 + b^6$, $8b - b^6 - 6 - \frac{2}{5}b^4 + b^5$

$$\begin{array}{r} b^6 + 7b^4 + 10b^3 + 6 \\ (+) -b^6 + b^5 - \frac{2}{5}b^4 + 8b - 6 \\ \hline b^5 - \frac{33}{5}b^4 + 10b^3 + 8b \end{array}$$

2) $\frac{3}{4}y^2 + \frac{1}{2}y^3 + \frac{4}{7}y + \frac{2}{9}$, $-\frac{1}{3}y - \frac{6}{7}y^2 - \frac{3}{8}y^3$

$$\begin{array}{r} \frac{1}{2}y^3 + \frac{3}{4}y^2 + \frac{4}{7}y + \frac{2}{9} \\ (+) -\frac{3}{8}y^3 - \frac{6}{7}y^2 - \frac{1}{3}y \\ \hline \frac{1}{8}y^3 - \frac{3}{28}y^2 + \frac{5}{21}y + \frac{2}{9} \end{array}$$

3) $\frac{7}{8}g^4 - 8g - 26 - \frac{5}{8}g^2$,

$$\begin{array}{r} \frac{7}{8}g^4 - \frac{5}{8}g^2 - 8g - 26 \\ (+) -\frac{7}{8}g^4 + \frac{5}{8}g^2 + 8g + 26 \\ \hline \end{array}$$

5) $3r^6 + 3r^4 + 2r^5 - r^2 - 8r^3$

$$\begin{array}{r} 3r^6 + 2r^5 + 3r^4 - r^2 - 8r^3 \\ (+) 4r^6 - 2r^5 - 5r^4 + r^2 + 8r^3 \\ \hline 7r^6 - 2r^4 \end{array}$$

7) $\frac{5}{9} + \frac{2}{3}k^4 + \frac{2}{7}k$, $\frac{1}{3}k^4 - \frac{1}{9} - \frac{2}{7}k$

$$\begin{array}{r} \frac{2}{3}k^4 + \frac{2}{7}k + \frac{5}{9} \\ (+) \frac{1}{3}k^4 - \frac{2}{7}k - \frac{1}{9} \\ \hline k^4 + \frac{4}{9} \end{array}$$

8) $-2s^4 - s^5 - \frac{5}{6}s$, $-7s^5 - 2s^3 - \frac{1}{6}s - 5s^4 - s^2$

$$\begin{array}{r} -s^5 - 2s^4 - \frac{5}{6}s \\ (+) -7s^5 - 5s^4 - 2s^3 - s^2 - \frac{1}{6}s \\ \hline -8s^5 - 7s^4 - 2s^3 - s^2 - s \end{array}$$

$2h + 2h^4 + h^3 - \frac{1}{4}$

$$\begin{array}{r} h^3 + \frac{1}{4} \\ h^3 + 12h - \frac{1}{4} \\ \hline h^3 + 12h \end{array}$$

$-\frac{3}{4}q^2$, $\frac{2}{5}q^3 + q^2 - \frac{3}{7}$

$$\begin{array}{r} 8q^4 - \frac{3}{4}q^2 + \frac{1}{7} \\ \frac{2}{5}q^3 + q^2 - \frac{3}{7} \\ \hline 8q^4 + \frac{2}{5}q^3 + \frac{1}{4}q^2 - \frac{2}{7} \end{array}$$

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