

Name : _____

Adding Polynomials

Single-variable: L2S5

Arrange and add the polynomials.

1) $-5p^4 + \frac{3}{8}p^6 - p^3 + 6p - \frac{5}{6}p^2$, $p^4 + 2p^6 + p + 9p^3$ 2) $b^3 + 2b^5 + 9b^4 - 21 + b$, $-2b^5 - 9b^4 - b^3$

3) $26 + \frac{3}{5}y + 2y^2$, $\frac{2}{5}y^2 -$

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5) $-\frac{7}{9}g^3 - \frac{1}{2}g^4 - \frac{2}{9} - \frac{5}{8}g$

4 , $\frac{1}{3}u^4 + u^3 - 8u^2 + u^6$

$\frac{5}{8}c - \frac{8}{9} - \frac{3}{4}c^4 - c^3 - 2c^2$

7) $\frac{6}{7}v^5 - v^2 - 2v^3 - \frac{5}{7}v$, $-7v^3 - v^5 + \frac{2}{7}v - v^4 + 31$

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

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Answer key

Adding Polynomials

Single-variable: L2S5

Arrange and add the polynomials.

1) $-5p^4 + \frac{3}{8}p^6 - p^3 + 6p - \frac{5}{6}p^2$, $p^4 + 2p^6 + p + 9p^3$ 2) $b^3 + 2b^5 + 9b^4 - 21 + b$, $-2b^5 - 9b^4 - b^3$

$$\begin{array}{r} \frac{3}{8}p^6 - 5p^4 - p^3 - \frac{5}{6}p^2 + 6p \\ (+) \quad 2p^6 + p^4 + 9p^3 \quad + p \\ \hline \frac{19}{8}p^6 - 4p^4 + 8p^3 - \frac{5}{6}p^2 + 7p \end{array}$$

$$\begin{array}{r} 2b^5 + 9b^4 + b^3 + b - 21 \\ (+) \quad -2b^5 - 9b^4 - b^3 \\ \hline b - 21 \end{array}$$

3) $26 + \frac{3}{5}y + 2y^2$, $\frac{2}{5}y^2 - 3y + 26$

$$\begin{array}{r} 2y^2 + \frac{3}{5}y + 26 \\ (+) \quad \frac{2}{5}y^2 - 3y + 26 \\ \hline \frac{12}{5}y^2 - 2\frac{2}{5}y + 52 \end{array}$$

5) $-\frac{7}{9}g^3 - \frac{1}{2}g^4 - \frac{2}{9} - \frac{5}{8}g^5$

$$\begin{array}{r} -\frac{5}{8}g^5 - \frac{1}{2}g^4 - \frac{2}{9} - \frac{7}{9}g^3 \\ (+) \quad \frac{5}{8}g^5 + \frac{1}{2}g^4 - \frac{2}{9} - \frac{7}{9}g^3 \\ \hline -\frac{14}{9}g^3 - \frac{1}{9} - \frac{14}{9}g^3 \end{array}$$

7) $\frac{6}{7}v^5 - v^2 - 2v^3 - \frac{5}{7}v$, $-7v^3 - v^5 + \frac{2}{7}v - v^4 + 31$

$$\begin{array}{r} \frac{6}{7}v^5 - 2v^3 - v^2 - \frac{5}{7}v \\ (+) \quad -v^5 - v^4 - 7v^3 + \frac{2}{7}v + 31 \\ \hline -\frac{1}{7}v^5 - v^4 - 9v^3 - v^2 - \frac{3}{7}v + 31 \end{array}$$

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

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

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4) $\frac{1}{3}u^4 + u^3 - 8u^2 + u^6$

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

6) $\frac{5}{8}c - \frac{8}{9} - \frac{3}{4}c^4 - c^3 - 2c^2$

$$\begin{array}{r} c^3 + 3c^2 \\ c^3 - 2c^2 - \frac{5}{8}c - \frac{8}{9} \\ \hline c^3 + c^2 - \frac{5}{8}c - \frac{8}{9} \end{array}$$