

Name : _____

Adding Binomials

Single-variable: L2S3

Arrange and add the binomials.

1) $\frac{1}{7}d^4 - \frac{3}{5}d^5$, $\frac{4}{5}d^5 + \frac{5}{7}d^4$

2) $\frac{1}{3}q^6 + q^5$, $q^3 + 3q^4$

3) $5b^3 - \frac{5}{8}$, $\frac{5}{8}$

$\frac{2}{7}u^4 - 14$

5) $5x^4 + 7$, $-$

2 , $\frac{1}{2}m^2 + 2m^5$

7) $\frac{2}{3}t + \frac{4}{9}$, $-t + \frac{2}{9}$

8) $z^3 - \frac{1}{2}$, $-\frac{1}{8}z^3 - \frac{1}{4}$

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Answer key

Adding Binomials

Single-variable: L2S3

Arrange and add the binomials.

1) $\frac{1}{7}d^4 - \frac{3}{5}d^5, \frac{4}{5}d^5 + \frac{5}{7}d^4$

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

2) $\frac{1}{3}q^6 + q^5, q^3 + 3q^4$

$$\begin{array}{r} \frac{1}{3}q^6 + q^5 \\ (+) \phantom{\frac{1}{3}q^6} + 3q^4 + q^3 \\ \hline \frac{1}{3}q^6 + q^5 + 3q^4 + q^3 \end{array}$$

3) $5b^3 - \frac{5}{8}, \frac{5}{8}$

$$\begin{array}{r} 5b^3 \\ (+) -5b^3 \\ \hline 0 \end{array}$$

$\frac{2}{7}u^4 - 14$

$$\begin{array}{r} u^4 + 8u^3 \\ (+) - 14 \\ \hline u^4 + 8u^3 - 14 \end{array}$$

5) $5x^4 + 7, -x^4 - 7$

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

$\frac{1}{2}m^2 + 2m^5$

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

7) $\frac{2}{3}t + \frac{4}{9}, -t + \frac{2}{9}$

$$\begin{array}{r} \frac{2}{3}t + \frac{4}{9} \\ (+) -t + \frac{2}{9} \\ \hline -\frac{1}{3}t + \frac{2}{3} \end{array}$$

8) $z^3 - \frac{1}{2}, -\frac{1}{8}z^3 - \frac{1}{4}$

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

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