

Name : \_\_\_\_\_

## Adding Polynomials

Single-variable: L2S4

Arrange and add the polynomials.

1)  $-2m + \frac{1}{7}m^3 - \frac{2}{9}$ ,  $\frac{2}{9} - m^5 - \frac{1}{7}m^3 + 2m + 6m^2$

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

3)  $k^3 + k^5 + 6k^4 + k^6 + k^2$

4)  $-15d^2 - 30d^6 + 11$

5)  $\frac{2}{7}p + \frac{1}{9}p^5 + p^3 + \frac{2}{5}p^2$

6)  $h + \frac{2}{5}h^2 - \frac{1}{2} - \frac{2}{3}h^3$

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

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

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## Answer key

# Adding Polynomials

Single-variable: L2S4

Arrange and add the polynomials.

1)  $-2m + \frac{1}{7}m^3 - \frac{2}{9}, \frac{2}{9} - m^5 - \frac{1}{7}m^3 + 2m + 6m^2$

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

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

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

3)  $k^3 + k^5 + 6k^4 + k^6 + k^2$

$$\begin{array}{r} k^6 + \quad k^5 + \\ (+) \quad k^6 + \frac{4}{9}k^5 \\ \hline 2k^6 + \frac{13}{9}k^5 + \end{array}$$

5)  $\frac{2}{7}p + \frac{1}{9}p^5 + p^3 + \frac{2}{5}p^2$

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

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

$$\begin{array}{r} -\frac{5}{7}x^4 - \frac{3}{4}x^3 \quad - 4x - 5 \\ (+) \quad -\frac{1}{5}x^6 - \frac{3}{7}x^4 - \frac{4}{5}x^3 - x^2 \quad - 1 \\ \hline -\frac{1}{5}x^6 - \frac{8}{7}x^4 - \frac{31}{20}x^3 - x^2 - 4x - 6 \end{array}$$

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

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

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$5d^2 - 9d - 2$

$5d^2 - 9d - 2$

$5d^2 + 11$

$10d^2 - 9d + 9$

$h + \frac{2}{5}h^2 - \frac{1}{2} - \frac{2}{3}h^3$

$h + \frac{2}{5}h^2 - \frac{1}{2} - \frac{2}{3}h^3$

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

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