

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

## Adding Polynomials

Single-variable: L2S1

Arrange and add the polynomials.

1)  $\frac{3}{4}n^3 - 4n^4 + \frac{1}{3}n^2$ ,  $\frac{2}{3}n^2 + n^4 + \frac{1}{4}n^3 - 17n$

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

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

# PREVIEW

$\frac{4}{9}a^3 + \frac{5}{9} - \frac{1}{9}a$

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

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$+ 4t$ ,  $-2t^4 - t^6 - 5t - t^2 - 2t^3$

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

8)  $\frac{3}{7}u^4 + \frac{5}{7}u + \frac{4}{7}u^2$ ,  $\frac{6}{7}u^2 + u^3 + u^4 + 2 + \frac{2}{7}u$

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## Adding Polynomials

Arrange and add the polynomials.

$$1) \quad \frac{3}{4}n^3 - 4n^4 + \frac{1}{3}n^2, \quad \frac{2}{3}n^2 + n^4 + \frac{1}{4}n^3 - 17n$$

$$\begin{array}{r} -4n^4 + \frac{3}{4}n^3 + \frac{1}{3}n^2 \\ (+) \quad n^4 + \frac{1}{4}n^3 + \frac{2}{3}n^2 - 17n \\ \hline -3n^4 + n^3 + n^2 - 17n \end{array}$$

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

$$\begin{array}{r} -p^5 - p^3 - \frac{5}{6}p^2 - 7 \\ (+) \quad -\frac{5}{8}p^5 - \frac{2}{5}p^3 - \frac{1}{4}p^2 - \frac{4}{5} \\ \hline -\frac{13}{8}p^5 - \frac{7}{5}p^3 - \frac{13}{12}p^2 - \frac{39}{5} \end{array}$$

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

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

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

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

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

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

$$8) \quad \frac{3}{7}u^4 + \frac{5}{7}u + \frac{4}{7}u^2, \quad \frac{6}{7}u^2 + u^3 + u^4 + 2 + \frac{2}{7}u$$

$$\begin{array}{r} \frac{3}{7}u^4 + \frac{4}{7}u^2 + \frac{5}{7}u \\ (+) \quad u^4 + u^3 + \frac{6}{7}u^2 + \frac{2}{7}u + 2 \\ \hline \frac{10}{7}u^4 + u^3 + \frac{10}{7}u^2 + u + 2 \end{array}$$

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$$\frac{4}{9}a^3 + \frac{5}{9} - \frac{1}{9}a$$

$$\begin{array}{r} -\frac{7}{9} \\ +\frac{5}{9} \\ -\frac{2}{9} \end{array}$$

$$+ 4t, \quad -2t^4 - t^6 - 5t - t^2 - 2t^3$$

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