

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

## Adding Polynomials

Single-variable: L1S4

Arrange and add the polynomials.

1)  $4r^4 + 7r^5 + 8r^2 + 26r^6$  ,  $3r^2 + 6r^4 + 5r^5$

2)  $-4u^3 - 18 - 2u^4$  ,  $14 + 2u^4 + u^3 + 27u$

3)  $a^5 + 2a^3 - 5a + a^2 - 9a^4$

$3$  ,  $-n^5 - n^3 - 4n - n^4 - n^6$

5)  $-p^3 - 7p^5 - 39p$  ,  $-$

$5$  ,  $38 - 2s^2 - 7s^3 + 10s$

7)  $6y^2 + 27y^3 - 9y^4 - 3y$  ,  $3y^2 + 2y^4 - 30 + y^5$

8)  $-14c^3 + 3c - 35c^2$  ,  $25c^2 - 3c + 14c^3$

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## Answer key

# Adding Polynomials

Single-variable: L1S4

Arrange and add the polynomials.

1)  $4r^4 + 7r^5 + 8r^2 + 26r^6$  ,  $3r^2 + 6r^4 + 5r^5$

$$\begin{array}{r} 26r^6 + 7r^5 + 4r^4 + 8r^2 \\ (+) \quad \quad 5r^5 + 6r^4 + 3r^2 \\ \hline 26r^6 + 12r^5 + 10r^4 + 11r^2 \end{array}$$

2)  $-4u^3 - 18 - 2u^4$  ,  $14 + 2u^4 + u^3 + 27u$

$$\begin{array}{r} -2u^4 - 4u^3 - 18 \\ (+) \quad 2u^4 + u^3 + 27u + 14 \\ \hline -3u^3 + 27u - 4 \end{array}$$

3)  $a^5 + 2a^3 - 5a + a^2 - 9a^4$

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

4)  $3n^4 + 2n^3 + n^2 - n^4 - n^3 - 4n$

$$\begin{array}{r} 3n^4 + 2n^3 + n^2 - n^4 - n^3 - 4n \\ \hline 2n^4 + n^3 - 3n \end{array}$$

5)  $-p^3 - 7p^5 - 39p$  ,  $-8p^5 - 12p^4 - 15p - 10s + 38$

$$\begin{array}{r} -7p^5 - 39p \\ (+) \quad -p^3 - 12p^4 - 15p - 10s + 38 \\ \hline -8p^5 - 12p^4 - p^3 - 15p - 10s + 38 \end{array}$$

6)  $38 - 2s^2 - 7s^3 + 10s$

$$\begin{array}{r} -15s - 29 \\ (+) \quad 10s + 38 \\ \hline -5s + 9 \end{array}$$

7)  $6y^2 + 27y^3 - 9y^4 - 3y$  ,  $3y^2 + 2y^4 - 30 + y^5$

$$\begin{array}{r} -9y^4 + 27y^3 + 6y^2 - 3y \\ (+) \quad y^5 + 2y^4 + 3y^2 - 30 \\ \hline y^5 - 7y^4 + 27y^3 + 9y^2 - 3y - 30 \end{array}$$

8)  $-14c^3 + 3c - 35c^2$  ,  $25c^2 - 3c + 14c^3$

$$\begin{array}{r} -14c^3 - 35c^2 + 3c \\ (+) \quad 14c^3 + 25c^2 - 3c \\ \hline -10c^2 \end{array}$$

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