

Name : _____

Adding Polynomials

Single-variable: L1S3

Arrange and add the polynomials.

1) $a^4 - 5a + a^5 - 20 - 8a^3$, $8a^3 + a^5 + 10 + 5a - a^4$ 2) $-2s^6 + 28s^3 + s^4$, $s^4 - 31s^3 - 6s^6$

3) $2g^3 + 4g^6 + 16 + 24g^5$

$4r + 3r^4 + 11r^2 + 9r^5$

5) $14 + n^2 + 5n^6$, $6n$

$-5b^3$, $b^2 - b^5 + 4b^3 - b^4$

7) $-6z^2 + z - z^3 + 5z^5$, $-5z^5 + 6z^2 + 9z^4 + z^3 - z$

8) $-7u - u^3 - 25 - 4u^2$, $-8u^2 - u - 25 - 5u^3$

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Answer key

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Single-variable: L1S3

Arrange and add the polynomials.

1) $a^4 - 5a + a^5 - 20 - 8a^3$, $8a^3 + a^5 + 10 + 5a - a^4$ 2) $-2s^6 + 28s^3 + s^4$, $s^4 - 31s^3 - 6s^6$

$$\begin{array}{r} a^5 + a^4 - 8a^3 - 5a - 20 \\ (+) \quad a^5 - a^4 + 8a^3 + 5a + 10 \\ \hline 2a^5 \qquad \qquad \qquad - 10 \end{array}$$

$$\begin{array}{r} -2s^6 + s^4 + 28s^3 \\ (+) \quad -6s^6 + s^4 - 31s^3 \\ \hline -8s^6 + 2s^4 - 3s^3 \end{array}$$

3) $2g^3 + 4g^6 + 16 + 24g^5$

$$\begin{array}{r} 4g^6 + 24g^5 + \\ (+) \quad 3g^6 \qquad \qquad + \\ \hline 7g^6 + 24g^5 + \end{array}$$

$4r + 3r^4 + 11r^2 + 9r^5$

$$\begin{array}{r} - 24r^2 \\ + 11r^2 + 4r \\ \hline - 13r^2 + 4r \end{array}$$

5) $14 + n^2 + 5n^6$, $6n^4$

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

$-5b^3$, $b^2 - b^5 + 4b^3 - b^4$

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

7) $-6z^2 + z - z^3 + 5z^5$, $-5z^5 + 6z^2 + 9z^4 + z^3 - z$

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

8) $-7u - u^3 - 25 - 4u^2$, $-8u^2 - u - 25 - 5u^3$

$$\begin{array}{r} -u^3 - 4u^2 - 7u - 25 \\ (+) \quad -5u^3 - 8u^2 - u - 25 \\ \hline -6u^3 - 12u^2 - 8u - 50 \end{array}$$

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