

Name : _____

Adding Polynomials

Single-variable: L2S3

Add the polynomials.

1) $8r^6 + 27r^2 - 34r^3 - 3r^4$, $6r^5 + 15r - 33r^4$

2) $\frac{1}{9}z^2 + 5z^4 + z^3 - \frac{8}{9}z - 7$, $-z^3 + z - \frac{1}{9}z^2 + 7 + z^4$

3) $\frac{6}{7}p + 3p^2 - \frac{5}{8} - 9p^5$,

PREVIEW

n^3 , $-5n^4 + n^3 + 8n^2 + n - 1$

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5) $3u^5 + u - 8u^2 - 23u^3 +$

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$+ \frac{2}{5}$, $\frac{3}{7} + 12a^2 - \frac{1}{3}a^6 - 6a$

7) $\frac{2}{9}w^4 + \frac{1}{2}w^2 + \frac{3}{5}w^3$, $\frac{1}{6}w^2 + \frac{4}{9}w^4 + \frac{2}{3}w^3$

8) $17s^3 + 3s^2 + \frac{5}{6}$, $-28s - 3s^2 - 17s^3 - \frac{5}{6}$

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Answer key

Adding Polynomials

Single-variable: L2S3

Add the polynomials.

1) $8r^6 + 27r^2 - 34r^3 - 3r^4$, $6r^5 + 15r - 33r^4$

2) $\frac{1}{9}z^2 + 5z^4 + z^3 - \frac{8}{9}z - 7$, $-z^3 + z - \frac{1}{9}z^2 + 7 + z^4$

$8r^6 + 6r^5 - 36r^4 - 34r^3 + 27r^2 + 15r$

$6z^4 + \frac{1}{9}z$

3) $\frac{6}{7}p + 3p^2 - \frac{5}{8} - 9p^5$,

PREVIEW

n^3 , $-5n^4 + n^3 + 8n^2 + n - 1$

$-16p^5 + \frac{1}{5}p^3 + 4p^2 +$

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$^2 - 5n$

5) $3u^5 + u - 8u^2 - 23u^3 +$

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$+ \frac{2}{5}$, $\frac{3}{7} + 12a^2 - \frac{1}{3}a^6 - 6a$

$-14u^2 + u + \frac{1}{2}$

$+ \frac{29}{35}$

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7) $\frac{2}{9}w^4 + \frac{1}{2}w^2 + \frac{3}{5}w^3$, $\frac{1}{6}w^2 + \frac{4}{9}w^4 + \frac{2}{3}w^3$

8) $17s^3 + 3s^2 + \frac{5}{6}$, $-28s - 3s^2 - 17s^3 - \frac{5}{6}$

$\frac{2}{3}w^4 + \frac{19}{15}w^3 + \frac{2}{3}w^2$

$-28s$