

Name : _____

Adding Polynomials

Multi-variable: L2S4

Add the polynomials.

1) $20 + abc + 9a - 10ab + c$, $6ab - c - 9a + 14b - 4$ 2) $-\frac{1}{6}vw - 19u - \frac{4}{5}v^2w^3x$, $-\frac{1}{5}v^2w^3x - 2vw - 9u$

3) $-\frac{3}{4}d^4 - 7cd - \frac{1}{4} + 26c$

PREVIEW

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4) $\frac{1}{2}m + \frac{4}{7}m^5n^2 - 4 + \frac{3}{8}n^4$

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

6) $-6p - q^4 - p^2 - 2r - 31$

7) $\frac{2}{7}h^3 + gh + 2k + g^4 + 9h$, $\frac{5}{9}k^5 + \frac{5}{6}gh + \frac{1}{2}k$

8) $\frac{4}{9}rs^6 + \frac{3}{5}s^5 + \frac{6}{7} + \frac{1}{8}r$, $-\frac{5}{6}t^4u - \frac{5}{7} + \frac{2}{5}s^5 - \frac{7}{8}r$

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Answer key

Adding Polynomials

Multi-variable: L2S4

Add the polynomials.

1) $20 + abc + 9a - 10ab + c$, $6ab - c - 9a + 14b - 4$ 2) $-\frac{1}{6}vw - 19u - \frac{4}{5}v^2w^3x$, $-\frac{1}{5}v^2w^3x - 2vw - 9u$

$abc - 4ab + 14b + 16$

$-v^2w^3x - \frac{13}{6}vw - 28u$

3) $-\frac{3}{4}d^4 - 7cd - \frac{1}{4} + 26c$

PREVIEW

4) $\frac{1}{2}m + \frac{4}{7}m^5n^2 - 4 + \frac{3}{8}n^4$

$-\frac{1}{4}$

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$m^2n - \frac{3}{7}mn + \frac{1}{2}m$

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

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6) $-6p - q^4 - p^2 - 2r - 31$

$12x^3y^3 - 7y^2z + \frac{2}{3}$

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7) $\frac{2}{7}h^3 + gh + 2k + g^4 + 9h$, $\frac{5}{9}k^5 + \frac{5}{6}gh + \frac{1}{2}k$

8) $\frac{4}{9}rs^6 + \frac{3}{5}s^5 + \frac{6}{7} + \frac{1}{8}r$, $-\frac{5}{6}t^4u - \frac{5}{7} + \frac{2}{5}s^5 - \frac{7}{8}r$

$\frac{5}{9}k^5 + g^4 + \frac{2}{7}h^3 + \frac{11}{6}gh + 9h + \frac{5}{2}k$

$\frac{4}{9}rs^6 + s^5 - \frac{5}{6}t^4u - \frac{3}{4}r + \frac{1}{7}$