

Name : _____

Adding Polynomials

Single-variable: L2S5

Add the polynomials.

1) $12x^4 + x^5 + 34x^3$, $\frac{3}{4}x^2 + 3x^4 - \frac{1}{4}x^5 - 2x - 34x^3$

2) $5c^3 + 4c^2 + \frac{3}{5} + 3c^4$, $-5c^3 - 3c^4 - \frac{3}{5} - 4c^2$

3) $25m^2 - 6m + 10m^5 + 1$

$-\frac{2}{3}s^2$, $\frac{6}{7}s^6 + 7 - 38s^5$

5) $-4d^2 + \frac{1}{3}d^4 + 28d^3$, -

$t^2 + t^3$, $2t^2 - \frac{7}{8} - t^3 + \frac{5}{8}t^5$

7) $-\frac{6}{7}g^2 - 5g - 3 - g^5$, $-2g^6 - \frac{7}{9}g - \frac{1}{7} - 17g^5 - g^2$

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

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Answer key

Adding Polynomials

Single-variable: L2S5

Add the polynomials.

1) $12x^4 + x^5 + 34x^3$, $\frac{3}{4}x^2 + 3x^4 - \frac{1}{4}x^5 - 2x - 34x^3$

2) $5c^3 + 4c^2 + \frac{3}{5} + 3c^4$, $-5c^3 - 3c^4 - \frac{3}{5} - 4c^2$

$\frac{3}{4}x^5 + 15x^4 + \frac{3}{4}x^2 - 2x$

0

3) $25m^2 - 6m + 10m^5 + 1$

$-\frac{2}{3}s^2$, $\frac{6}{7}s^6 + 7 - 38s^5$

$10m^5 - 20m^4 - 10m^3$

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$\frac{39}{5}$

5) $-4d^2 + \frac{1}{3}d^4 + 28d^3$, -

$t^2 + t^3$, $2t^2 - \frac{7}{8} - t^3 + \frac{5}{8}t^5$

$-\frac{1}{2}d^4 + 15d^3$

7) $-\frac{6}{7}g^2 - 5g - 3 - g^5$, $-2g^6 - \frac{7}{9}g - \frac{1}{7} - 17g^5 - g^2$

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

$-2g^6 - 18g^5 - \frac{13}{7}g^2 - \frac{52}{9}g - \frac{22}{7}$

$-\frac{1}{9}y^5 + y^4 - \frac{7}{5}y$