

Name : _____

Adding Polynomials

Single-variable: L2S4

Add the polynomials.

1) $-\frac{2}{7}m - 3m^6 - \frac{8}{9}m^4$, $\frac{2}{9}m^4 + \frac{3}{7}m^3 + \frac{3}{4}m^2$

2) $7a^5 + 15a^2 + 4a^3 + 25a$, $9a + 23a^4 + 21a^2 + a^3$

3) $9y^2 - \frac{5}{7}y^6 - \frac{1}{7}y^5 - 3y^4$

$7p$, $-12p^3 - \frac{3}{8}p^2 - 6$

5) $\frac{4}{7} - \frac{4}{9}r + \frac{6}{7}r^2 + 3r^3 + r^4$

$6 - 2c^3$, $-\frac{1}{4}c - 28c^6 - 8c^4$

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

8) $2x^3 - \frac{1}{3}x^2 + 10 - 9x$, $\frac{5}{6}x^5 + \frac{1}{6}x^3 + 9x + \frac{1}{3}x^2$

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Answer key

Adding Polynomials

Single-variable: L2S4

Add the polynomials.

1) $-\frac{2}{7}m - 3m^6 - \frac{8}{9}m^4, \frac{2}{9}m^4 + \frac{3}{7}m^3 + \frac{3}{4}m^2$

2) $7a^5 + 15a^2 + 4a^3 + 25a, 9a + 23a^4 + 21a^2 + a^3$

$$-3m^6 - \frac{2}{3}m^4 + \frac{3}{7}m^3 + \frac{3}{4}m^2 - \frac{2}{7}m$$

$$7a^5 + 23a^4 + 5a^3 + 36a^2 + 34a$$

3) $9y^2 - \frac{5}{7}y^6 - \frac{1}{7}y^5 - 3y^4$

$7p, -12p^3 - \frac{3}{8}p^2 - 6$

$$\frac{2}{7}y^6 - \frac{8}{7}y^5 + 8y^4 - 11y^2$$

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5) $\frac{4}{7} - \frac{4}{9}r + \frac{6}{7}r^2 + 3r^3 + r^4$

$6 - 2c^3, -\frac{1}{4}c - 28c^6 - 8c^4$

$$-\frac{11}{9}r$$

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$$-\frac{1}{2}c^2 - \frac{1}{4}c - \frac{1}{4}$$

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

8) $2x^3 - \frac{1}{3}x^2 + 10 - 9x, \frac{5}{6}x^5 + \frac{1}{6}x^3 + 9x + \frac{1}{3}x^2$

$$\frac{36}{5}k^4 + \frac{2}{5}k^3 + \frac{12}{5}k^2 + k - \frac{1}{5}$$

$$\frac{5}{6}x^5 + \frac{13}{6}x^3 + 10$$