

Name : \_\_\_\_\_

## Adding Polynomials

Multi-variable: L2S5

Add the polynomials.

1)  $-\frac{3}{4}xyz + \frac{2}{7}x^2 - \frac{1}{5} - \frac{1}{6}xy$  ,  $-\frac{2}{7}x^2 + 2xy + \frac{7}{9}z^6$       2)  $\frac{1}{8}h - \frac{3}{7}k^4 + \frac{5}{6}gh^5$  ,  $\frac{3}{7}k^4 - \frac{5}{6}gh^5 - \frac{1}{8}h - k^5$

3)  $-\frac{2}{9}s^2 - \frac{5}{9}t^2 - \frac{4}{9} - \frac{8}{9}t$  ,  $uv^3 - u + 4u^5v + 9w + \frac{1}{7}$

5)  $-6 - 9p^2q^2r^2 - pq^5 - 3p$  ,  $n^5$  ,  $-12n^5 - \frac{2}{3}n - 9m^4n^4$

7)  $40r^6 + \frac{4}{7}s^4 + \frac{5}{8}r + \frac{1}{2}r^4s + 5$  ,  $8 - \frac{5}{8}r + \frac{2}{5}rs - 2r^6$       8)  $\frac{1}{4}a + \frac{1}{3}d - b^2$  ,  $\frac{4}{5}b + a^4 + 2c^5 - \frac{1}{4}a + d^3$

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## Answer key

### Adding Polynomials

Multi-variable: L2S5

Add the polynomials.

1)  $-\frac{3}{4}xyz + \frac{2}{7}x^2 - \frac{1}{5} - \frac{1}{6}xy$  ,  $-\frac{2}{7}x^2 + 2xy + \frac{7}{9}z^6$       2)  $\frac{1}{8}h - \frac{3}{7}k^4 + \frac{5}{6}gh^5$  ,  $\frac{3}{7}k^4 - \frac{5}{6}gh^5 - \frac{1}{8}h - k^5$

$\frac{7}{9}z^6 - \frac{3}{4}xyz + \frac{11}{6}xy - \frac{1}{5}$

$-k^5$

3)  $-\frac{2}{9}s^2 - \frac{5}{9}t^2 - \frac{4}{9} - \frac{8}{9}t$  ,  $uv^3 - u + 4u^5v + 9w + \frac{1}{7}$

$-\frac{1}{9}tuv - \frac{4}{9}$

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5)  $-6 - 9p^2q^2r^2 - pq^5 - 3p$  ,  $n^5$  ,  $-12n^5 - \frac{2}{3}n - 9m^4n^4$

$17pq^5 - 9p^2q^2r^2 + 7q^5$

$\frac{14}{3}n$

7)  $40r^6 + \frac{4}{7}s^4 + \frac{5}{8}r + \frac{1}{2}r^4s + 5$  ,  $8 - \frac{5}{8}r + \frac{2}{5}rs - 2r^6$       8)  $\frac{1}{4}a + \frac{1}{3}d - b^2$  ,  $\frac{4}{5}b + a^4 + 2c^5 - \frac{1}{4}a + d^3$

$38r^6 + \frac{1}{2}r^4s + \frac{4}{7}s^4 + \frac{2}{5}rs + 13$

$2c^5 + a^4 + d^3 - b^2 + \frac{4}{5}b + \frac{1}{3}d$