

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

## Adding Polynomials

Multi-variable: L2S1

Add the polynomials.

1)  $-\frac{4}{7}g^3h - 5g^2 - 4$  ,  $-\frac{2}{7}g^2 - 1 - \frac{1}{2}g^3h$

2)  $-\frac{3}{5}q^2 - \frac{1}{9} - 8p - \frac{2}{9}pq$  ,  $2pq + \frac{1}{5}q^2 + 8p + \frac{1}{9}$

3)  $\frac{3}{8}ab^5c - 2b - 4a + bc$

# PREVIEW

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5)  $\frac{1}{6}v^2w^4 - \frac{5}{6}u^3 - \frac{1}{6}uv$  ,

$-r^3 - 24rt$  ,  $r^3 + 24rt - \frac{1}{7}r^5$

7)  $5m^5 + 8 + n + 2m^2 + 6n^6$  ,  $-n - 6n^6 - 5m^5 - 2m^2$

8)  $\frac{5}{9}c^3 - \frac{7}{8} - \frac{5}{8}c^2d^2 - \frac{3}{4}d^6$  ,  $-\frac{4}{9}d^2 + \frac{2}{5}c^5 - \frac{2}{3}c^3$

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## Answer key

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Add the polynomials.

1)  $-\frac{4}{7}g^3h - 5g^2 - 4$  ,  $-\frac{2}{7}g^2 - 1 - \frac{1}{2}g^3h$

2)  $-\frac{3}{5}q^2 - \frac{1}{9} - 8p - \frac{2}{9}pq$  ,  $2pq + \frac{1}{5}q^2 + 8p + \frac{1}{9}$

$-\frac{15}{14}g^3h - \frac{37}{7}g^2 - 5$

$-\frac{2}{5}q^2 + \frac{16}{9}pq$

3)  $\frac{3}{8}ab^5c - 2b - 4a + bc$

# PREVIEW

$-r^3 - 24rt$  ,  $r^3 + 24rt - \frac{1}{7}r^5$

$\frac{1}{2}ab^5c + 2bc - 10a - 7$

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5)  $\frac{1}{6}v^2w^4 - \frac{5}{6}u^3 - \frac{1}{6}uv$  ,

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$xy + x^2y - \frac{1}{4}z^4 - \frac{3}{7} + 12y^3$

$\frac{7}{6}v^2w^4 + 9v^5 + 8w^4 - 7$

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$\frac{3}{7}$

7)  $5m^5 + 8 + n + 2m^2 + 6n^6$  ,  $-n - 6n^6 - 5m^5 - 2m^2$

8)  $\frac{5}{9}c^3 - \frac{7}{8} - \frac{5}{8}c^2d^2 - \frac{3}{4}d^6$  ,  $-\frac{4}{9}d^2 + \frac{2}{5}c^5 - \frac{2}{3}c^3$

8

$-\frac{3}{4}d^6 + \frac{2}{5}c^5 - \frac{5}{8}c^2d^2 - \frac{1}{9}c^3 - \frac{4}{9}d^2 - \frac{7}{8}$