

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

## Adding Polynomials

Single-variable: L2S2

Add the polynomials.

1)  $-\frac{4}{9}p^6 + 2p^4 + \frac{5}{9}$  ,  $-2p^4 + 4p^6 + 1$

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

3)  $-3 - \frac{4}{7}s^3 - \frac{1}{3}s^2 - s - s^4$

$-2z^5 - 27z^2 - 9z^4 - 3z - z^6$

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5)  $\frac{3}{7}h - 40h^5 + 1 - \frac{7}{8}h^2$  ,

$8g^2 + 5g + \frac{6}{7} + 22g^4$

7)  $9u^3 + 2u^4 + \frac{3}{4}u^2 - u$  ,  $-\frac{2}{7}u^4 + 2u^5 - 34u + 2u^2$

8)  $\frac{4}{5}b^5 + \frac{1}{5}b + \frac{3}{5}b^3 + \frac{2}{5}b^2$  ,  $-\frac{2}{3}b^2 - \frac{5}{6}b + \frac{2}{5}b^3$

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## Answer key

### Adding Polynomials

Single-variable: L2S2

Add the polynomials.

1)  $-\frac{4}{9}p^6 + 2p^4 + \frac{5}{9}$  ,  $-2p^4 + 4p^6 + 1$

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

$$\frac{32}{9}p^6 + \frac{14}{9}$$

$$-d^4 + d^2 - \frac{1}{8}d$$

3)  $-3 - \frac{4}{7}s^3 - \frac{1}{3}s^2 - s - s^4$

$-2z^5 - 27z^2 - 9z^4 - 3z - z^6$

$$-\frac{8}{7}s^3 + \frac{1}{6}s^2 - \frac{11}{4}$$

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$$-33z^3 - 41z^2 - 3z$$

5)  $\frac{3}{7}h - 40h^5 + 1 - \frac{7}{8}h^2$  ,

$8g^2 + 5g + \frac{6}{7} + 22g^4$

$$\frac{7}{9}$$

$$\frac{5}{7}$$

7)  $9u^3 + 2u^4 + \frac{3}{4}u^2 - u$  ,  $-\frac{2}{7}u^4 + 2u^5 - 34u + 2u^2$

8)  $\frac{4}{5}b^5 + \frac{1}{5}b + \frac{3}{5}b^3 + \frac{2}{5}b^2$  ,  $-\frac{2}{3}b^2 - \frac{5}{6}b + \frac{2}{5}b^3$

$$2u^5 + \frac{12}{7}u^4 + 9u^3 + \frac{11}{4}u^2 - 35u$$

$$\frac{4}{5}b^5 + b^3 - \frac{4}{15}b^2 - \frac{19}{30}b$$