

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

## Adding Polynomials

Multi-variable: S2

Add the polynomials.

1)  $-cd^3 - 4d^2 - 2b^3 - 8ab - 3$  ,  $-15b^3 - 9cd^3 - 4 + 2d^2$  ,  $8 - 2cd^3 - ab + b^3 - d^2$

2)  $8m - 7n^4 - 3m^2n^2 + 5m^6 + 34n$  ,  $7n^4 - 6n^2 - 2m^2n^2$  ,  $-m - 5m^6 + 6n^2 - 9n$

3)  $-x^2 - 17yz - y$  +  $2yz$

4)  $11uvw^2 + 33w$  +  $2w^5 - 6v - 4uvw^2$

5)  $8p^6q + 26p^5q^6$  +  $4 - 29qrs - s^3 - q$

6)  $2 + 5h - 16gh + 35k$  ,  $21gh - 30k - 5h - 13$  ,  $-5gh + 22k - 10$

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## Answer key

### Adding Polynomials

Multi-variable: S2

Add the polynomials.

1)  $-cd^3 - 4d^2 - 2b^3 - 8ab - 3$  ,  $-15b^3 - 9cd^3 - 4 + 2d^2$  ,  $8 - 2cd^3 - ab + b^3 - d^2$

**$-12cd^3 - 16b^3 - 3d^2 - 9ab + 1$**

2)  $8m - 7n^4 - 3m^2n^2 + 5m^6 + 34n$  ,  $7n^4 - 6n^2 - 2m^2n^2$  ,  $-m - 5m^6 + 6n^2 - 9n$

**$-5m^2n^2 + 7m$**

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3)  $-x^2 - 17yz - y$

$+ 2yz$

**0**

4)  $11uvw^2 + 33w$

$2w^5 - 6v - 4uvw^2$

**$31w^5 + 7uvw^2$**

5)  $8p^6q + 26p^5q^6$

$4 - 29qrs - s^3 - q$

**$45p^5q^6 + 8p^6q + 10q^6 - t^4 + 38s^3 - 29qrs$**

6)  $2 + 5h - 16gh + 35k$  ,  $21gh - 30k - 5h - 13$  ,  $-5gh + 22k - 10$

**$27k - 21$**