

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

## Adding Polynomials

Single-variable: S4

Add the polynomials.

1)  $g^5 - 30g - 10g^4 - 28g^3$  ,  $-5g^5 + 10g - g^4$  ,  $28g^3 + 12g + 4g^5$

2)  $-4n^6 - 6 + 2n^2 - 8n^5 - 6n^3$  ,  $2n^4 + 19n^2 + 4n^6 + 3$  ,  $-7n^5 + 3 + 16n^3 + n^4$

3)  $2h^2 - 4h - 9 -$

$33h^6 - h^2 - 6h$

4)  $-3b^3 - 9b^5 - 6$

$b^4 + 18b - 3b^5 + 4$

5)  $-10s^4 - s - 26$

$3s^6 - 2s^5$

6)  $19 + 6v^5 + 11v^2$  ,  $-34 - 10v^4 - 20v^3$  ,  $10v^4 + 38v^3 - 11v^2 + 15 - 6v^5$

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## Answer key

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Add the polynomials.

1)  $g^5 - 30g - 10g^4 - 28g^3$  ,  $-5g^5 + 10g - g^4$  ,  $28g^3 + 12g + 4g^5$

$-11g^4 - 8g$

2)  $-4n^6 - 6 + 2n^2 - 8n^5 - 6n^3$  ,  $2n^4 + 19n^2 + 4n^6 + 3$  ,  $-7n^5 + 3 + 16n^3 + n^4$

$-15n^5 + 3n^4 +$

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3)  $2h^2 - 4h - 9 -$

$33h^6 - h^2 - 6h$

$-4h^2 - 7h - 1.$

4)  $-3b^3 - 9b^5 - 6$

$b^4 + 18b - 3b^5 + 4$

$-16b^5 - 13b^4$

5)  $-10s^4 - s - 26$

$3s^6 - 2s^5$

$-7s^6 - 28s^5 - 22s^4 - 5s^3 - 4s - 39$

6)  $19 + 6v^5 + 11v^2$  ,  $-34 - 10v^4 - 20v^3$  ,  $10v^4 + 38v^3 - 11v^2 + 15 - 6v^5$

$18v^3$