

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

## Adding Polynomials

Single-variable: S5

Add the polynomials.

1)  $-21 + z^2 - 5z$  ,  $-13z^3 - 2z^2 + 3z^4$  ,  $9z^2 + 21 - 4z^4 + 3z^3$

2)  $-32a^3 + 9 + 2a^2 - 23a + 25a^4$  ,  $-18a^4 + 1 + a^2$  ,  $-25a^4 - 2a + 6a^3 + a^2 + 7$

3)  $b^5 - 18b^4 + b^6$

$b^3 - 14 - b^5$

4)  $6t^4 + 19 - 10t$

$t^2 - 20t + t^4 + t^3$

5)  $-u + 10u^5 - 7u$

$11 - 27u^3 - 4u^2$

6)  $-p^6 - 2p^3 - 10p - 14$  ,  $-7 + 3p^6 + p - 36p^3$  ,  $9p + 6 - 2p^6$

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

## Answer key

### Adding Polynomials

Single-variable: S5

Add the polynomials.

1)  $-21 + z^2 - 5z$  ,  $-13z^3 - 2z^2 + 3z^4$  ,  $9z^2 + 21 - 4z^4 + 3z^3$

$-z^4 - 10z^3 + 8z^2 - 5z$

2)  $-32a^3 + 9 + 2a^2 - 23a + 25a^4$  ,  $-18a^4 + 1 + a^2$  ,  $-25a^4 - 2a + 6a^3 + a^2 + 7$

$-18a^4 - 26a^3$

3)  $b^5 - 18b^4 + b^6$

$-11$

4)  $6t^4 + 19 - 10t^3$

$15t^3 - 13t^2 - 11$

5)  $-u + 10u^5 - 7u^4$

$24u^6 - 23u^5 - 3u^4 - 26u^3 - 11u^2 - 2u$

6)  $-p^6 - 2p^3 - 10p - 14$  ,  $-7 + 3p^6 + p - 36p^3$  ,  $9p + 6 - 2p^6$

$-38p^3 - 15$

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$b^3 - 14 - b^5$

$t^2 - 20t + t^4 + t^3$

$11 - 27u^3 - 4u^2$