

Name : _____

Adding Polynomials

Single-variable: S1

Add the polynomials.

1) $10x^3 + 7 + 5x^4$, $-2x - 7x^2 + 14 + 10x^4 - x^3$, $2x^3 - 2x^2 + 4 - 15x^4 + 3x$

2) $-20 + 4h^2 - 15h^5 - 26h^3$, $26h^3 - 11h + 34 + h^2$, $-14 - 6h + 15h^5 - 9h^2$

3) $2m^5 - 4 - 9m^3$

$m^2 - 18m - m^4$

4) $-6z^2 + 10z^4 -$

$z^4 + 6z^2 - 1$

5) $p^4 + 23p^2 - 2$

$13p^2 - p^3 + 10p^5 - 6$

6) $8a^6 + 27 + a^4$, $-4a^2 - a^6 - 4a + 19a^4$, $-7a^6 - 12a^2 - 14a^4 - 27$

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Name : _____

Answer key

Adding Polynomials

Single-variable: S1

Add the polynomials.

1) $10x^3 + 7 + 5x^4$, $-2x - 7x^2 + 14 + 10x^4 - x^3$, $2x^3 - 2x^2 + 4 - 15x^4 + 3x$

$11x^3 - 9x^2 + x + 25$

2) $-20 + 4h^2 - 15h^5 - 26h^3$, $26h^3 - 11h + 34 + h^2$, $-14 - 6h + 15h^5 - 9h^2$

$-4h^2 - 17h$

3) $2m^5 - 4 - 9m^3$, $10m^5 - 18m - m^4$

$-31m^6 - 8m^4$

4) $-6z^2 + 10z^4 -$, $z^4 + 6z^2 - 1$

0

5) $p^4 + 23p^2 - 2$, $13p^2 - p^3 + 10p^5 - 6$

$-7p^5 + p^4 + 5p^3 + 39p^2 + p$

6) $8a^6 + 27 + a^4$, $-4a^2 - a^6 - 4a + 19a^4$, $-7a^6 - 12a^2 - 14a^4 - 27$

$6a^4 - 16a^2 - 4a$

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