

Name : _____

Adding Polynomials

Multi-variable: S4

Add the polynomials.

1) $5p^4 + 38q^2r^3s^4 - 6s^5$, $-2s^5 + 13 + 4p^4$, $-9p^4 - 13 + 8s^5$

2) $18y^5z^3 + x + 8y$, $2 - 4y^5z^3 + 9x + 3z^2$, $-3z^2 - 37 + y^5z^3 - y$

3) $-w^2 + 11 + 15t$

$-2 + 4uv^4$

4) $-abc^2 - 3a^3 - 5$

$-10a^3 - 3ab - b^4c$

5) $-6gh^6 - g^3h^3 -$

$, 18k^2 + 5g^3h^3 - 3$

6) $m^5 + 4 + 7n^4 + mn$, $n^3 - m^5 + n^4 - m^3n + 1$, $9n^4 - m^3n - m^5 - 7n^3 + 4mn$

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Name : _____

Answer key

Adding Polynomials

Multi-variable: S4

Add the polynomials.

1) $5p^4 + 38q^2r^3s^4 - 6s^5$, $-2s^5 + 13 + 4p^4$, $-9p^4 - 13 + 8s^5$

$38q^2r^3s^4$

2) $18y^5z^3 + x + 8y$, $2 - 4y^5z^3 + 9x + 3z^2$, $-3z^2 - 37 + y^5z^3 - y$

$15y^5z^3 + 7y +$

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3) $-w^2 + 11 + 15t$

$-6tu^5v^2 - 11v$

$-2 + 4uv^4$

4) $-abc^2 - 3a^3 - 5$

$-8abc^2 - 6b^4c$

$-10a^3 - 3ab - b^4c$

5) $-6gh^6 - g^3h^3 -$

$2gh^6 + 5g^3h^3 - 17$

$18k^2 + 5g^3h^3 - 3$

6) $m^5 + 4 + 7n^4 + mn$, $n^3 - m^5 + n^4 - m^3n + 1$, $9n^4 - m^3n - m^5 - 7n^3 + 4mn$

$-m^5 + 17n^4 - 2m^3n - 6n^3 + 5mn + 5$