Name : _____

Adding Polynomials

Single-variable: L1S2

Arrange and add the polynomials.

1) $-u^4 - 8u^3 - 2u^6 - u^5$, $3u^5 + u^6 + 7u^4 + u^2 + u^3$

2) $6n^5 - 28 + 4n^3$, $-9n^2 + 28 + n - 6n^5 - 4n^3$

3) $7k - 26k^2 - 20$, 26 $- 2b^2$, $-23b^3 - b^2 - 2b^4$

5) $5z + 36 + 8z^3 + 2z^2$, , $-7v^2 + 4v^6 - 34v^5$

7) $-p^4 + 24p^2 - 8p^3 - 16p^5$, $10p^2 + 7p^3 + 3p^4$

8) $12 + t^4 - t^2 - 6t^5 + t$, $3t^3 + 3t + 2t^4 - t^5 - t^2$

Name : _____

Answer key

Adding Polynomials

Single-variable: L1S2

Arrange and add the polynomials.

1) $-u^4 - 8u^3 - 2u^6 - u^5$, $3u^5 + u^6 + 7u^4 + u^2 + u^3$

$-2u^6 - u^5 - u^4 - 8u^3$

(+) $u^6 + 3u^5 + 7u^4 + u^3 + u^2$

$-u^6 + 2u^5 + 6u^4 - 7u^3 + u^2$

2) $6n^5 - 28 + 4n^3$, $-9n^2 + 28 + n - 6n^5 - 4n^3$

$6n^5 + 4n^3 - 28$

(+) $-6n^5 - 4n^3 - 9n^2 + n + 28$

$-9n^2 + n$

3) $7k - 26k^2 - 20$, 26 $- 2b^2$, $-23b^3 - b^2 - 2b^4$

$-26k^2 + 7k -$

(+) $26k^2 - 3k +$

$4k -$

$b^3 - 2b^2 - 4b - 13$

$b^3 - b^2$

$b^3 - 3b^2 - 4b - 13$

5) $5z + 36 + 8z^3 + 2z^2$, , $-7v^2 + 4v^6 - 34v^5$

$8z^3 + 2z^2 +$

(+) $-9z^3 - z^2 -$

$-z^3 + z^2$

$v^5 + 7v^2$

$v^5 - 7v^2$

7) $-p^4 + 24p^2 - 8p^3 - 16p^5$, $10p^2 + 7p^3 + 3p^4$

$-16p^5 - p^4 - 8p^3 + 24p^2$

(+) $3p^4 + 7p^3 + 10p^2$

$-16p^5 + 2p^4 - p^3 + 34p^2$

8) $12 + t^4 - t^2 - 6t^5 + t$, $3t^3 + 3t + 2t^4 - t^5 - t^2$

$-6t^5 + t^4 - t^2 + t + 12$

(+) $-t^5 + 2t^4 + 3t^3 - t^2 + 3t$

$-7t^5 + 3t^4 + 3t^3 - 2t^2 + 4t + 12$