



Simplifying Algebraic Expressions

Name _____

Score _____

SAE:04

Simplify each algebraic expression.

Q. No	Expressions	Simplified Expressions
1)	$10 + y(y + y^2) - 2y^2 + y^3 - 4$	
2)	$2(3d - 1) + d(d + 2) - d^2 - 1$	
3)	$3k - k^2 - 4 + 4k^2 - k + 5$	
4)	$n(n^3 - 4) - 5(n^4 - 3)$	
5)	$3(t^2 - 2) + t(6 - t)$	
6)	$7z^2 - z^3 + 4z^3 - z^2 - z^3 + z^2$	
7)	$4(b - b^2) + b(b - 8)$	
8)	$11p^3 - 9p + p(2 - p) + p^2(3 + p)$	



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Answer key

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Simplify each algebraic expression.

Q. No	Expressions	Simplified Expressions
1)	$10 + y(y + y^2) - 2y^2 + y^3 - 4$	$2y^3 - y^2 + 6$
2)	$2(3d - 1) + d(d + 2) - d^2 - 1$	$8d - 3$
3)	$3k - k^2 - 4 + 4k^2 - k + 5$	$3k^2 + 2k + 1$
4)	$n(n^3 - 4) - 5(n^4 - 3)$	$-4n^4 - 4n + 15$
5)	$3(t^2 - 2) + t(6 - t)$	$2t^2 + 6t - 6$
6)	$7z^2 - z^3 + 4z^3 - z^2 - z^3 + z^2$	$2z^3 + 7z^2$
7)	$4(b - b^2) + b(b - 8)$	$-3b^2 - 4b$
8)	$11p^3 - 9p + p(2 - p) + p^2(3 + p)$	$12p^3 + 2p^2 - 7p$