



# Simplifying Algebraic Expressions

Name \_\_\_\_\_

Score \_\_\_\_\_

SAE:06

Simplify each algebraic expression.

Q. No	Expressions	Simplified Expressions
1)	$m^3 - 3m^2 + 5m^3 + 6m^2 - m^3$	
2)	$w^2(4 - w^2) - 3w(w^3 + w)$	
3)	$c(2c - 6) + c^2 - 5c - 6c$	
4)	$4g^2 - 3 - 7g + 8g^2 - 15 - g$	
5)	$u^2 + 5u^4 - 2u^2 - 3u^3 - u^4$	
6)	$(x + 3)(2x + 5) - (x^2 + 2 + x)$	
7)	$5s - 4s^2 - 3s^2 - s + 7s^2 + 3s$	
8)	$2 - q^3 + 4q^2 - q^3 - 3 + q^2$	



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## Answer key

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Simplify each algebraic expression.

Q. No	Expressions	Simplified Expressions
1)	$m^3 - 3m^2 + 5m^3 + 6m^2 - m^3$	$5m^3 + 3m^2$
2)	$w^2(4 - w^2) - 3w(w^3 + w)$	$-4w^4 + w^2$
3)	$c(2c - 6) + c^2 - 5c - 6c$	$3c^2 - 17c$
4)	$4g^2 - 3 - 7g + 8g^2 - 15 - g$	$12g^2 - 8g - 18$
5)	$u^2 + 5u^4 - 2u^2 - 3u^3 - u^4$	$4u^4 - 3u^3 - u^2$
6)	$(x + 3)(2x + 5) - (x^2 + 2 + x)$	$x^2 + 10x + 13$
7)	$5s - 4s^2 - 3s^2 - s + 7s^2 + 3s$	$7s$
8)	$2 - q^3 + 4q^2 - q^3 - 3 + q^2$	$-2q^3 + 5q^2 - 1$