



An expression for Jenny's car rental charge for 7 days is  $215 - 5w$ , where  $w$  is the number of weekdays she rents the car.

#### Example 4 Polynomials on Both Sides

Solve  $-2(2a + 7) - 2a = 4(-a - 3) + 4$ .

$-2(2a + 7) - 2a = 4(-a - 3) + 4$	Original equation
$-4a - 14 - 2a = -4a - 12 + 4$	Distributive Property
$-6a - 14 = -4a - 8$	Combine like terms.
$-14 = 2a - 8$	Add $6a$ to each side.
$-6 = 2a$	Add 8 to each side.
$-3 = a$	Divide each side by 2.

The solution is  $-3$ .

<b>Check</b>	$-2(2a + 7) - 2a = 4(-a - 3) + 4$	Original equation
	$-2[2(-3) + 7] - 2(-3) = 4[-(-3) - 3] + 4$	$a = -3$
	$-2(-6 + 7) + 6 = 4(3 - 3) + 4$	Simplify.
	$-2(1) + 6 = 4(0) + 4$	Add and subtract.
	$-2 + 6 = 0 + 4$	Multiply.
	$4 = 4$ ✓	Add.