Name	Hour		
2-4	Practice		Form G
	Solving Equations With Variables on Both Sides		
Solve each equation. C	heck your answer.		
<b>1.</b> $3n + 2 = -2n - 8$	<b>2.</b> $8b - 7 = 7b - 2$	<b>3.</b> $-q - 11 = 2q + 4$	<b>4.</b> $17 - 9y = -3 + 16y$

## Write and solve an equation for each situation. Check your solution.

**5.** Shirley is going to have the exterior of her home painted. Tim's Painting charges \$250 plus \$14 per hour. Colorful Paints charges \$22 per hour. How many hours would the job need to take for Tim's Painting to be the better deal?

**6.** Tracey is looking at two different travel agencies to plan her vacation. ABC Travel offers a plane ticket for \$295 and a rental car for \$39 per day. M & N Travel offers a plane ticket for \$350 and a rental car for \$33 per day. What is the minimum number of days that Shirley's vacation should be for M & N Travel to have the better deal?

Solve each equation. Check your answer.

<b>7.</b> $-(5a + 6) = 2(3a + 8)$	<b>8.</b> $3w - 6 + 2w = -2 + w$	<b>9.</b> $-8x - (3x + 6) = 4 - x$
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Determine whether each equation is an *identity* or whether it has *no solution*.

**10.** -2(j-3) = -2j + 6

**11.** 5x + 2x - 3 = -3x + 10x

**12.** -(3z + 4) = 6z - 3(3z + 2)