Algebra I Worksheet #4 Unit 2 Selected Solutions

Complete the table for each input-output chart shown.

	5.	6.	7.	8.
Input	3x + 7 = 31	7x + 4 = 25	8x-3=37	9x-6=12
First Operation	subtract 7 from both sides	subtract 4 from both sides	add 3 to both sides	add 6 to both sides
Output		7x = 21		9x = 18
Second Operation		divide both sides by 7		divide both sides by 9
Output		x = 3		x = 2

Solve the following equations. Show your steps.

15. $9x - 36 = 36$	16. $12x + 18 = 66$
+36 +36	-18 -18
$\underline{9x} = \underline{72}$	$\frac{12x}{12} = \frac{48}{12}$
9 9 9 x = 8	12 12 12 x = 4

Write an algebraic expression for each of the following. In each case, let N represent the number.

- 22. five more than twice the number: 2N + 5
- 23. six less than seven times the number: 7N 6