Algebra 1 Name_____

Solve By Completing the Square #2

Date_____ Period____

Solve each equation by completing the square.

1) $m^2 + 16m + 48 = 0$

2) $v^2 + 8v + 7 = 0$

3) $x^2 + 2x - 47 = 0$

4) $x^2 + 8x - 48 = 0$

5) $x^2 - 18x - 88 = 0$

6) $n^2 + 8n - 53 = 0$

7) $m^2 + 20m - 85 = -10$

8) $k^2 - 4k - 61 = -6$

9) $p^2 - 4p - 49 = 7$

10) $v^2 - 16v - 13 = 4$

11) $x^2 + 18x - 57 = 2$

12) $b^2 - 16b + 54 = -9$

Answers to Solve By Completing the Square #2

1) $\{-4, -12\}$
2) $\{-1, -7\}$
3) $\{-1 + 4\sqrt{3}, -1 - 4\sqrt{3}\}$
4) $\{4, -12\}$
5) $\{22, -4\}$
6) $\{-4 + \sqrt{69}, -4 - \sqrt{69}\}$
7) $\{-10 + 5\sqrt{7}, -10 - 5\sqrt{7}\}$
8) $\{2 + \sqrt{59}, 2 - \sqrt{59}\}$
9) $\{2 + 2\sqrt{15}, 2 - 2\sqrt{15}\}$
10) $\{17, -1\}$
11) $\{-9 + 2\sqrt{35}, -9 - 2\sqrt{35}\}$
12) $\{9, 7\}$