

Name: _____ Date: _____ Period: _____

Algebra 1B Practice quiz on completing the square

Show your work in the space provided, and write your answer in the answer box to the right

I) Find the value of c that would complete the square.

1) $x^2 + 4x + c$

2) $x^2 - 12x + c$

3) $x^2 - 7x + c$

4) $x^2 + \frac{4}{7}x + c$

II) Solve the following equations.

5) $(x + 5)^2 = 36$

6) $(x - 6)^2 = 23$

7) $(x + 12)^2 = -49$

III) Solve the following equations by completing the square.

8) $x^2 - 8x = -15$

9) $5n^2 + 20n + 10 = -5$

10) $h^2 + 6h - 86 = 5$

11) $m^2 - 12m + 26 = 0$

Extra credit (Show your work on the back of the paper): $7x = 4x^2 - 5$

1) _____

2) _____

3) _____

4) _____

5) _____

6) _____

7) _____

8) _____

9) _____

10) _____

11) _____

EC) _____