Sec 2H - Solving Quadratics Unit Name_____

Day 3 - Homework - NO CALCULATOR!

Period____

1) In your own words describe how to tell which of the 3 forms we've discussed a quadratic equation is in.

2) In your own words describe how to tell when a quadratic equation is not in any of the 3 forms we've discussed.

For each question below, do the following: A) Tell what form each equation below is in. B) Solve the equation from Vertex Form. C) Classify each equation's solution(s) as either rational real (QR), irrational real (IR) , rational imaginary (Qi) or irrational imaginary (Ii).

3) $n^2 + 4n + 3 = 0$

4) $(x + 6)^2 + 61 = 0$

5) $2b^2 - 12b + 82 = 0$

6) $4(x + 2)^2 - 4 = 0$

7) $x^2 - 3x + 5 = 0$

8) $n^2 + 5n - 28 = 0$

9) $n^2 - 7n + 21 = 9$

10) $4p^2 - 16p + 7 = 0$

11) $p^2 + 8 = 0$

12) $b^2 - 10 = 30$

13) $-2x^2 + 8 = 0$

14) $9x^2 + 35 = 0$