Secondary Math 2   Name_____

4.4 Quadratic Formula

Date_____ Period____

1) When would you solve by using the quadratic formula?

2) What is one benefit and one drawback of using the quadratic formula?

Solve each equation with the quadratic formula.

3) $2n^2 - 28 = -10n$

4) $3b^2 = -3 + 10b$

5) $4k^2 = 72 + 2k$

6) $5x^2 - 2 = 8x$

7) $5x^2 - 7x = 16$

8) $6a^2 - 12 = 2a$

9) $8x^2 - 9x = 8$

10) $6x^2 = -1 - 11x$

11) $2p^2 - 13 = -7p$

12) $-3n^2 - 7 = -3n$

13) When you are solving, when can you tell if you'll have rational, irrational, or imaginary solutions?

14) When do you get imaginary solutions?

Find the value of c that completes the square.

15) $x^2 - 16x + c$

16) $x^2 + 14x + c$

17) $x^2 + 34x + c$

18) $y^2 - 4y + c$