SM 2

Name:_____ Period:_____

SM2—Solving Quadratic Equations Test Review

Solve the following equations by factoring:

1. $0=(3x+2)(2x+4)$
2. $6y^2+30y=0$
3. $n^2+28=11n$

4. $-3h^2+h=-14$
5. $0=9w^2-16$

Find all solutions (real and imaginary) of each equation by using the square root principle. Write all answers in simplest radical form, and write imaginary answers in the form $a+bi$.

6. $m^2=64$
7. $k^2+13=-7$
8. $(r+3)^2=81$

9. $(z-3)^2 = 24$

10. $-2(v-7)^2 - 50 = 0$

Find all solutions (real and imaginary) of each equation by using the quadratic formula. Write all answers in simplest radical form, and write imaginary answers in the form $a+bi$.

11. $x^2 + 10x - 11 = 0$

a = _____, b = _____, c = _____

12. $2n^2 - 2n + 7 = 0$

a = _____, b = _____, c = _____

13. $-2t^2 + 3 = 8t$

a = _____, b = _____, c = _____