Algebra 2

Name_____

4.7-4.8 Quiz Review

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $-84 = 4p - 3p^2$

2) $5p^2 - 15 = 6p$

3) $9 - 6m = -4m^2$

4) $0 = 4m - 12m^2 - 11$

Find the discriminant of each quadratic equation then state the number and type of solutions.

5) $-4n^2 = 4 - 10n$

6) $2k^2 - 3k = 9$

7) $-4n^2 - 2n - 11 = -1$

8) $-3p^2 - 3p - 3 = 3p$

Simplify.

9) $\sqrt{-36}$

10) $\sqrt{-45}$

11) $\sqrt{-28}$

12) $\sqrt{-200}$

13) $(-2 - 5i) - (-2 - 8i)$

14) $(5 + 7i) + (-8 + 8i)$

15) $(-7 - 7i) + (2 + 4i) - (7i)$

16) $(-7 - 3i) - (1 + 2i) - (5 - 2i)$

17) $(-5i)(7 + i)$

18) $(-6i)(8i)(6i)$

19) $(-6 + 7i)(8 + i)$

20) $(6 + 2i)^2$

21) $-\dfrac{8}{9i}$

22) $\dfrac{-3 - 7i}{3i}$

23) $\dfrac{5i}{10 - 5i}$

24) $\dfrac{7 - 9i}{-2 + 9i}$