Algebra 1 - Mr. Cantlin - All work on looseleaf! Name_____

Q3 - Homework #4

Date_____ Period____

Find each discriminant, if d is a perfect square then factor COMPLETELY. Watch for a GCF - do 1st!

1) $35p^2 - 150p + 40$

2) $5n^2 - 3n$

3) $5a^2 + 7a - 24$

4) $28n^2 - 216n - 64$

5) $2k^2 - 19k - 10$

6) $12x^2 + 4x - 56$

7) $20x^2 + 236x + 360$

8) $5x^2 + 3x - 8$

9) $5n^2 + 4n - 36$

10) $14x^2 + 38x - 12$

Solve each equation by factoring.

11) $3m^2 + 14m + 8 = 0$

12) $7n^2 - 12n + 5 = 0$

13) $5x^2 + 3x - 2 = 0$

14) $5v^2 + 34v - 48 = 0$

15) $6k^2 - 11k + 5 = 0$

16) $k^2 - 10k + 21 = 0$

17) $14n^2 - 9n - 26 = -8$

18) $10p^2 + 13p + 8 = 4$

19) $7a^2 - 43a = -40$

20) $6x^2 = -41x + 56$

21) $3n^2 = -16 - 14n$

22) $35v^2 = -6 + 29v$