

## Q3 - Homework #4 - Worksheet 9-4

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