

Name: _____ Lowest Acceptable Grade: _____

Factor or Solve

1. $n^2 - 64$

2. $y^2 - 10y + 25 = 0$

3. $4f^2 - 36f + 81 = 0$

4. $16m^2 - 8mn + n^2$

5. $-6k^2 - 13k - 6$

6. $6m^2 - 5m = 14$

7. $g(x) = 2x^2 + x - 1$

8. $-(5x)^2$

9. $(-4)^0$

10. $(3)^2 \times \frac{5}{7}^0$

11. $(17 \times 16)^4$

12. x^{-4}

13. $x + 2y = 1$
 $-2x + y = -4$

14. $2x - 3y = -1$
 $5x + 2y = 26$

15. $-5x + 3y = 51$
 $y = 10x - 8$

16. $2x + y = 9$
 $4x - y = -15$

17. $(j/k)^{11}$

18. $(a^7/2b)^5$

Graph the following

19. $r - 4 < -5$

20. $x + y < -4$

Extra Credit. $2.8x + 4.1y \leq 1$