Adv Alg 2 Summer Worksheet #2 Name _____

1. Write the equation of the line passing through the points (-8,7) and (1,10) in <u>slope-intercept form</u>	2. Write the equations of the line passing through the points (2,11) and (-5, -3) in <u>point-slope form</u>.	3. Solve and graph the solution on a number line. Then state the solution. $2n + 7 \geq 27 \ \ or \ 3 + 3n \leq 30$
4. Solve and graph the solution on a number line. Then state the solution. $6 \leq x + 6 \leq 11$	5. Solve and graph the solutions on a number line. $\lvert 2x - 5 \rvert > 3$	6. Solve using the quadratic formula. $2x^2 + 4x = 5$
7. Solve using the zero product property. $5x = 6 - 6x^2$	8. Solve and graph the solutions on a number line. $\lvert x + 1 \rvert + 7 = 2$	9. Factor completely : $3y^2 - 11y + 10$
10. Factor completely : $3a^2 - 27a + 60$	11. Solve the system of equations. Write the solution as an ordered pair. $2x + 5y = 7$ $6x = 10 - 15y$	12. Solve the system of inequalities by graphing. $-3x > 2y + 6$ $x - 4y \geq -8$