**Algebra 2 HW #3 – WS More Graphing Inequalities Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_**

1. Solve each of the following inequalities. Express the solutions algebraically and on a number line.
2. 3x2 – 4x + 2 < 2x2 + x + 8 **b)** 2x2 – 5x < 12 **c)** | x – 4 | < 9
3. | 0.5x – 45 | > 80 **e)** 2|2x – 5| – 4 < –6 **f)** x2 + 6 > 42

**Algebra 2 HW #3 – WS More Graphing Inequalities Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_**

1. Solve each of the following inequalities. Express the solutions algebraically and on a number line.
2. 3x2 – 4x + 2 < 2x2 + x + 8 **b)** 2x2 – 5x < 12 **c)** | x – 4 | < 9
3. | 0.5x – 45 | > 80 **e)** 2|2x – 5| – 4 < –6 **f)** x2 + 6 > 42
4. Solve the following systems graphically.
5. y > |x – 1| – 3 **b)** y < $\frac{1}{2}$ (x + 3)2 – 2 **c)** x2 + y2 > 16
 y < –|x + 1| + 5 y > x + 5 y > x2 – 1

1. Solve the following systems graphically.
2. y > |x – 1| – 3 **b)** y < $\frac{1}{2}$ (x + 3)2 – 2 **c)** x2 + y2 > 16
 y < –|x + 1| + 5 y > x + 5 y > x2 – 1

