**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

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4. Solve the following systems graphically.
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    y < –|x + 1| + 5 y > x + 5 y > x2 – 1



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