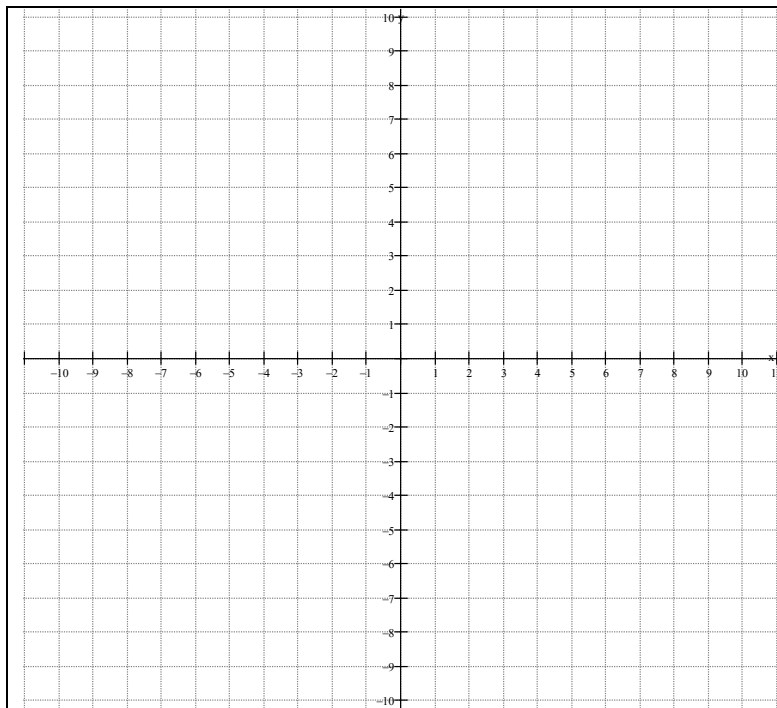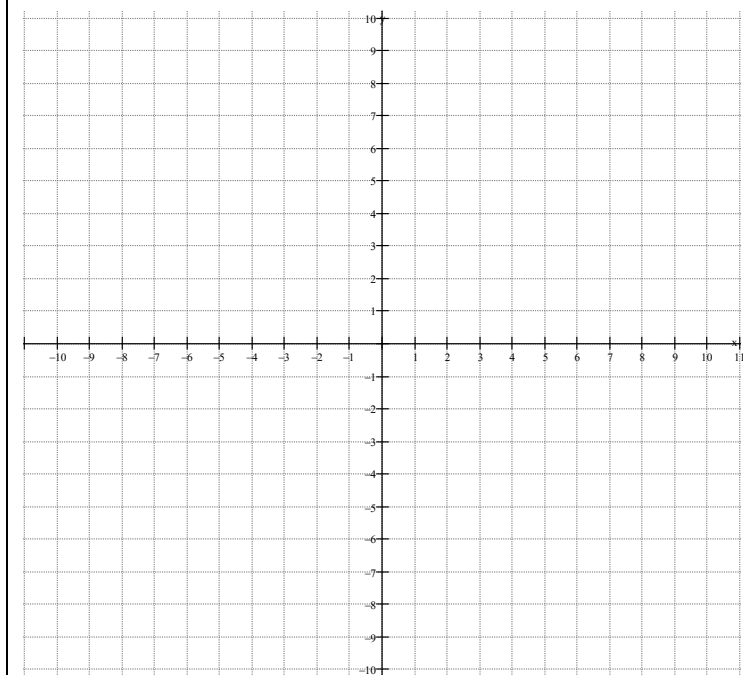# Worksheet #3 - Systems of Inequalities

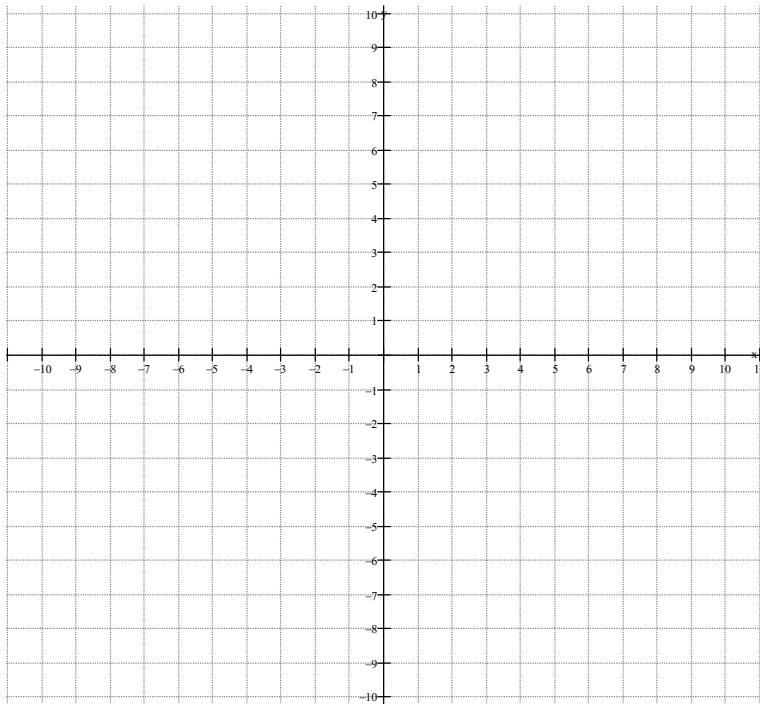## <u>SYSTEMS OF QUADRATIC INEQUALITIES – ONE VARIABLE</u>

You solve these first by factoring to find the roots. Now mark these x-intercepts on your graphs and then draw happy face or sad face parabola. Lastly, shade on the line above or below the zero line (inequality sign tells you).
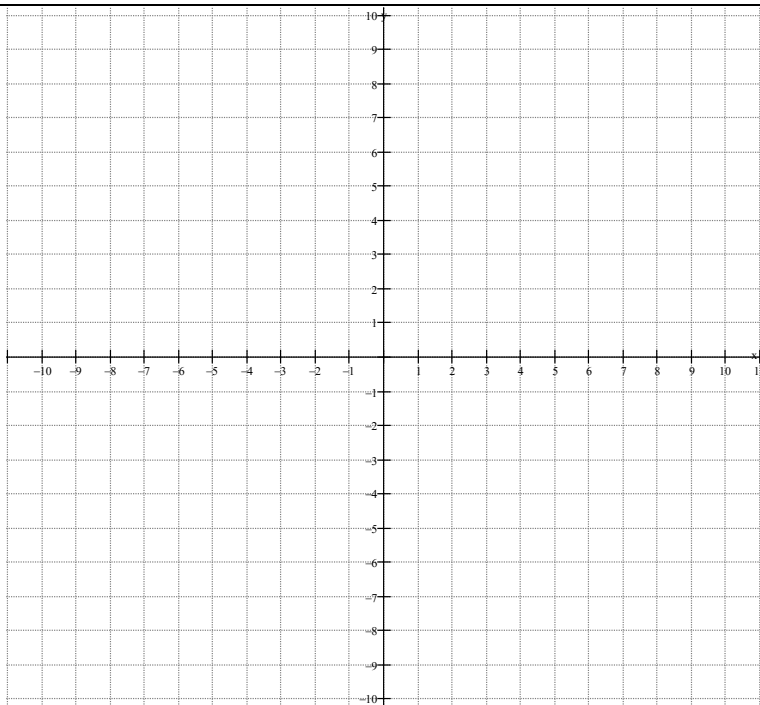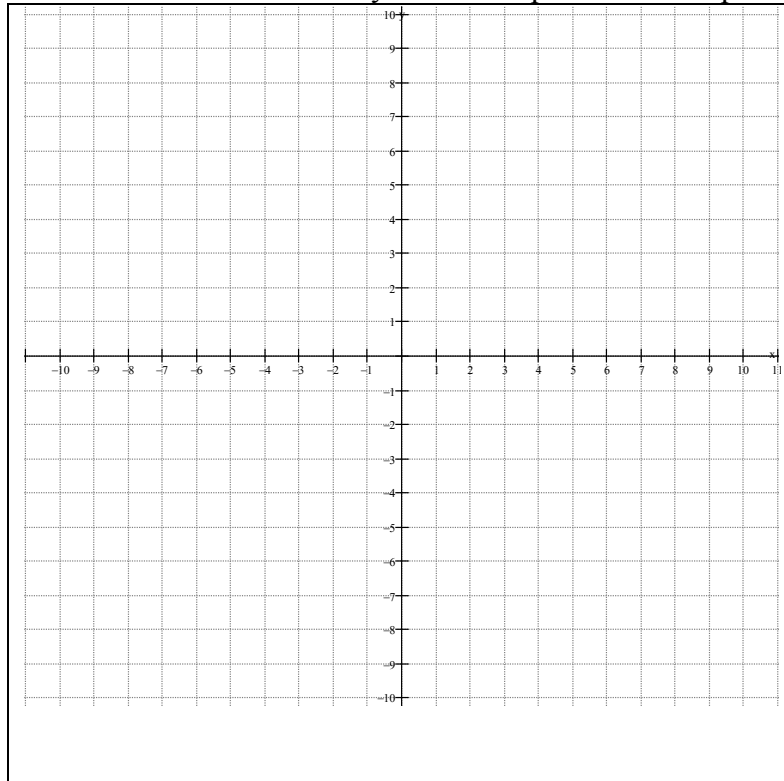
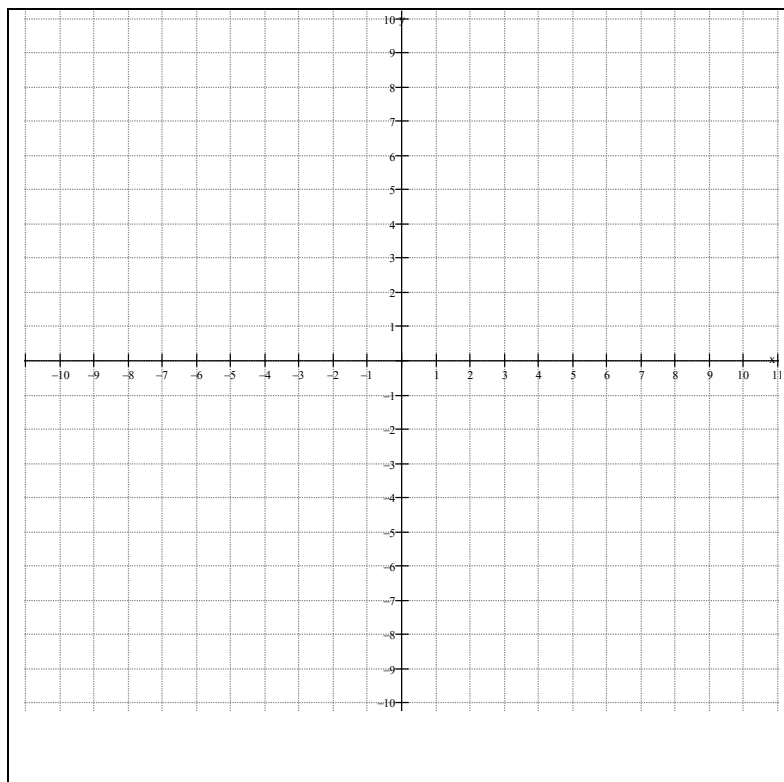1. $x^2 - 17x + 70 < 0$

2. $x^2 - x - 12 \geq 0$

1

3. $2x^2 \leq 5x - 2$

4. $x^2 + 2x - 15 < 0$

5. $2x^2 + 2x - 12 \leq 0$

6. $y^2 \geq 25$