Retake 2: Functions and inequalities
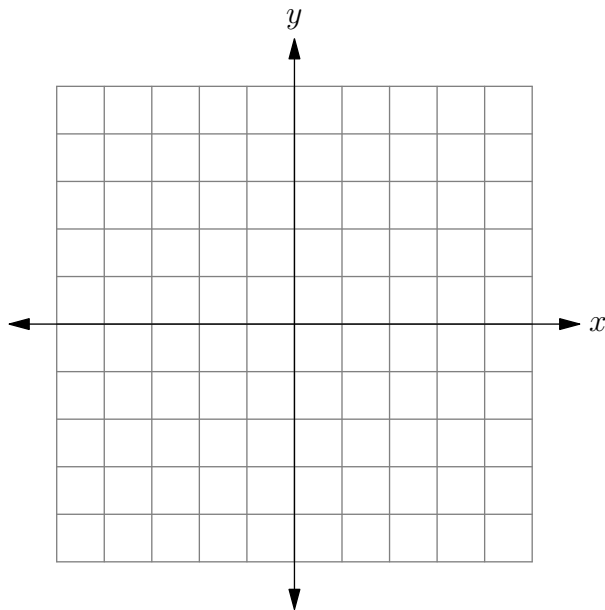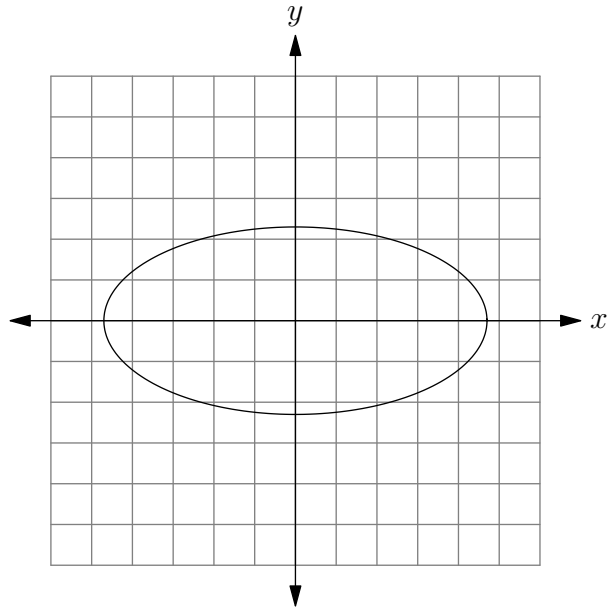
NAME:

1. (5 points) Find the equation of the line passing through the points $(2,2)$ and $(-1,-1)$.

2. (5 points) Graph $y = 2\sqrt{x+2}$.

3. (5 points) Is the graph in the figure the graph of a function? Give a reason for your answer.

4. (5 points) Solve $2(x + 4) > 5x - 4$. Make a picture of your solutions on a number line, and write the answer using interval notation.