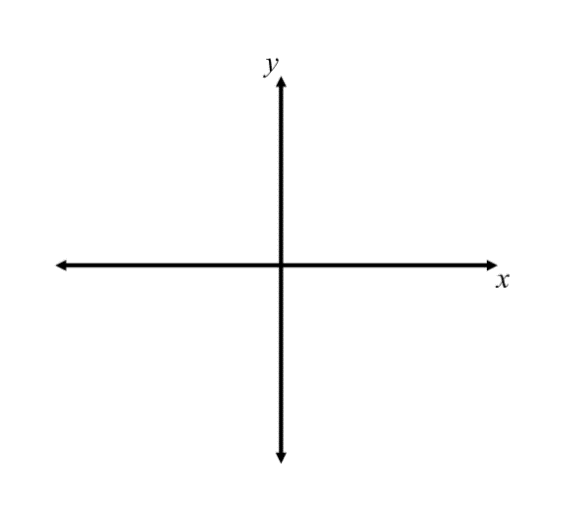
**For problems 1 – 3: Solve for y. Show detailed work.**

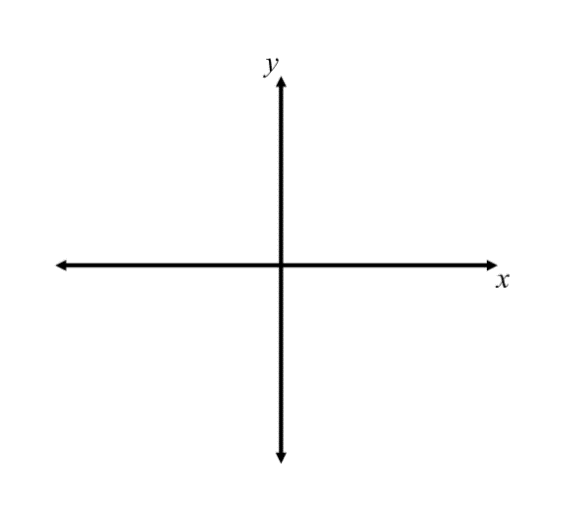
1. \_\_\_\_\_\_\_\_\_\_\_\_\_

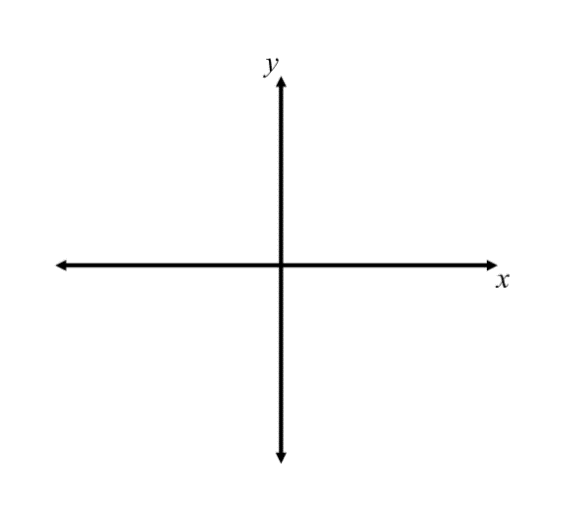
2. \_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_

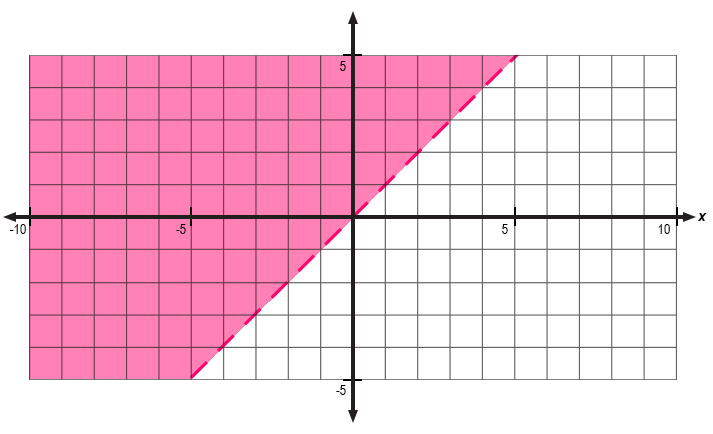
**For problems 4 – 6: Use the graphing calculator to graph each inequality. Show detailed work. Provide a rough sketch of each graph.**

4. \_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_\_\_\_\_\_\_

6. \_\_\_\_\_\_\_\_\_\_\_\_\_

**For questions 7 –10: Refer to the inequality shown in the graph below.**



Given the inequality shown in the graph:

7. Describe the location(s) on the graph where you can find solutions.

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8. Plot two points that are included in the solution set. Label the points A and B.

9. Describe the location(s) on the graph where you **cannot** find solutions.

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10. Plot two points that are **not** included in the solution set. Label the points C and D.

**For question 11: Refer to the inequality given below.**

11. Choose each of the following points that is a solution to the given inequality. Show work to justify your answer.

A)

B)

C)

D)