

Quiz 3

Name: _____

Total Points possible: 10**Math 12: Spring 2025**

Instructions: Each question is worth 3 points but the last question. Question 3 is worth 1 point. Questions 4-7 are additional practice problems. **Show all your work in order to receive credit.**

Problem 1. Simplify the fractions.

(a) $\frac{7}{6} - 7 - \frac{2}{3}$

(b) Solve for x using the definition of inequality.

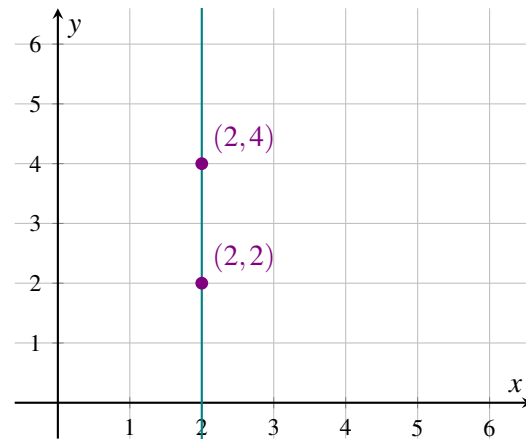
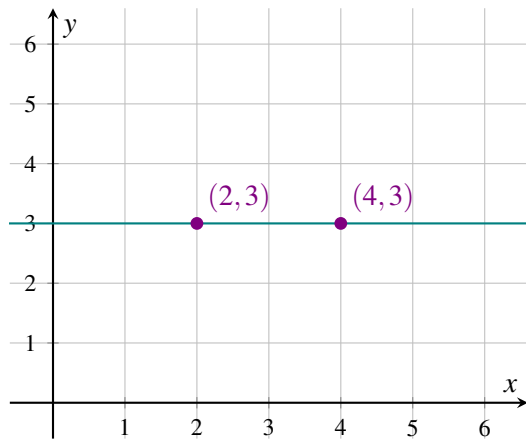
$$3 \left| \frac{2}{5}x + 4 \right| - 7 = 14$$

Problem 2. Solve for the variable x .

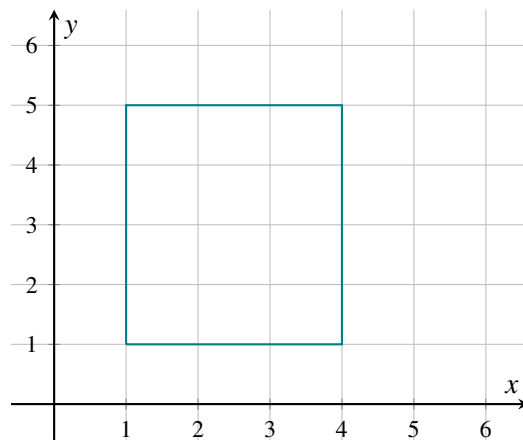
$$6 - 9x + x = 7x + 2(3 - x)$$

Problem 3. If you were able to travel back in time to any historical event and witness it without affecting anything, what would it be and why?

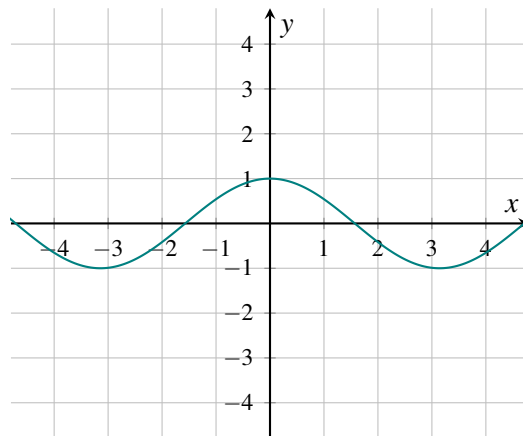
Problem 4. Give the slope and give the equation of the line.



Problem 5. Determine if the follow is a function. Give the domain and range of each graph.



Problem 6. Determine if the follow is a function. Give the domain and range of each graph.



Problem 7. Determine if the follow is a function. Give the domain and range of each graph.

