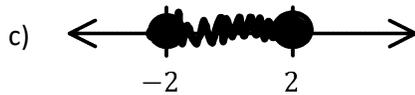
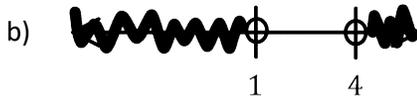


C11 - 9.0 - Inequalities Review

Point a solution?
Graph Inequality
Find Equation

1) Find the Domain:



2) Solve algebraically and on a number line and graphically.

- a) $x - 5 \leq 0$
- b) $-x^2 + 5x - 4 < 0$
- c) $x^2 - 4 \leq 0$
- d) $x^2 + 3x + 1 \geq 0$

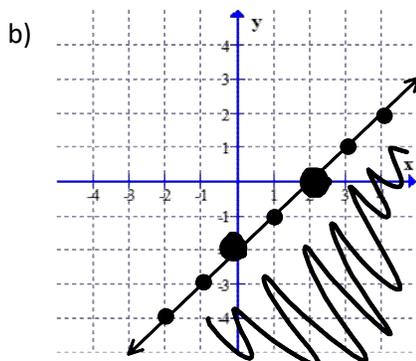
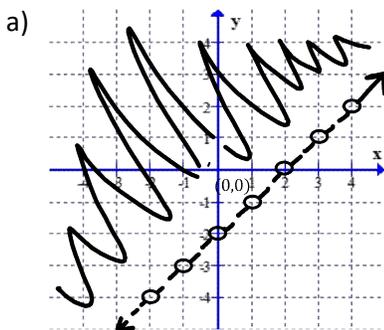
3) Are the following points solution?

- a) $y - x - 1 > 0$; (1,1)(1,2)(1,3)
- b) $y \leq x^2 - 3x + 2$; (1,0)(2,1)(2,-1)

4) Graph

- a) $y < x + 2$
- b) $2x + 3y \geq 12$

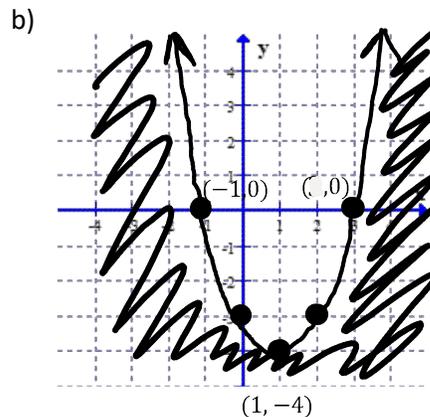
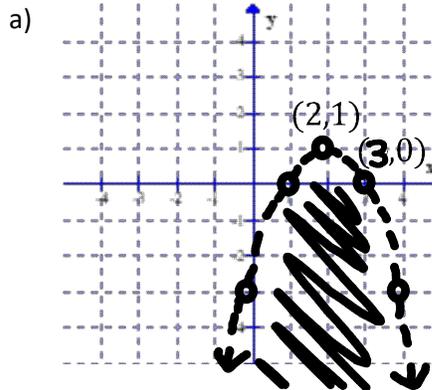
5) Find Equation



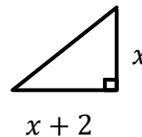
6) Graph

- a) $y \leq x^2 - 1$
- b) $y > x^2 - 4x + 3$

7) Find Equation



8) Find an integer x if Area > 4 .



9) A rectangular garden has a Perimeter of less than or equal to 30 and an Area greater than 36. What is a possible integer length and width?

10) The height vs distance of a bow and arrow shot off a cliff is:

$$h = -2d^2 + 8d + 10$$

At what distance is the height greater than 16 m?

Find Domain and Range.