

MODULE 1**ABSOLUTE VALUE INEQUALITIES,
LINES, AND FUNCTIONS**

Name: _____ Points: _____

Exercise 1. Solve for x . Write your answer in interval notation.

(a) $2 \cdot |4x - 12| < 8$

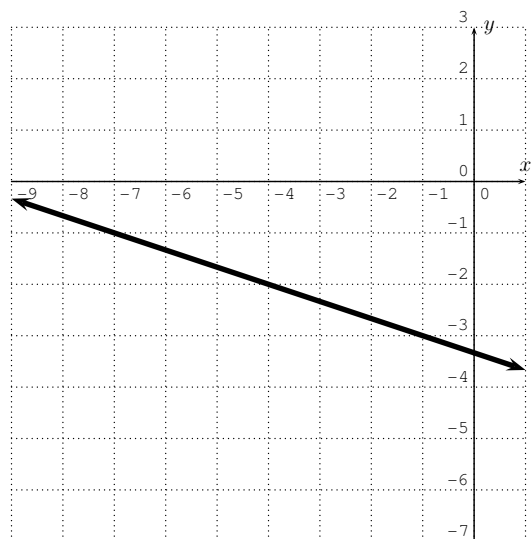
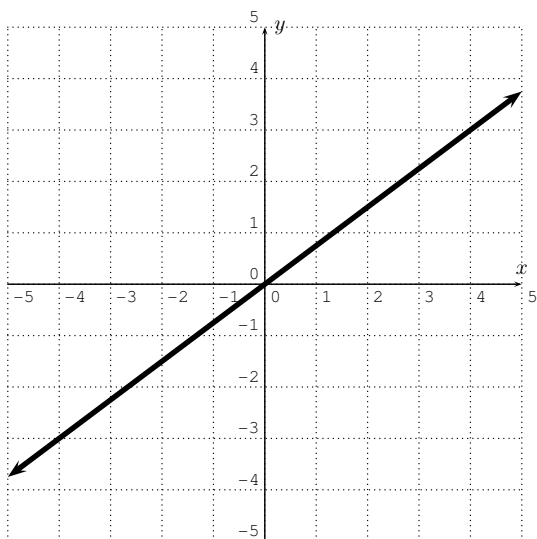
(b) $(-2) \cdot |4x - 12| \leq -8$

(c) $|7x + 5| > 3$

(d) $|x + 4| < -2$

(e) $|x + 4| > -2$

Exercise 2. Find the equation of the line in slope-intercept form.

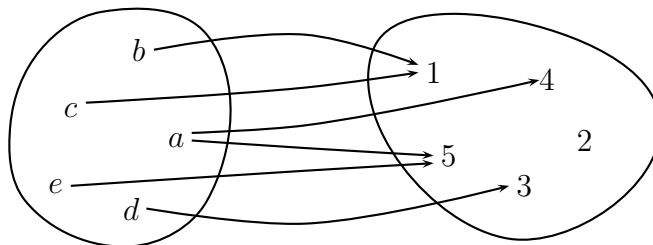


Exercise 3. Determine if the following assignments are functions. Justify your answer.

(a)

x	3	4	7	4
y	7	4	7	4

(b)



Can you define a function with domain and range given below? Justify your answer.

(c) domain = set of all college students in the U.S.
range = set of all colleges in the U.S.

(d) domain = set of all colleges in the U.S.
range = set of all college students in the U.S.