

Today's Business

New seats tomorrow. Remind me to move you guys before I collect bellwork.

Handout Protractors

Put your calculator on your desk.

Collect Homework - it is worth 4 points and graded for accuracy.

Handback function quiz. - I will do this.

Handback Remediation (can someone do this for me)

- 35/51 kids got one of them wrong and will be remediating.
- It is a 4 point penalty if you don't get it done.
- It is due Friday
- X period

Home: 13Date: 11/12

p. 128 #5, 6

p.129 #13,14, 16-25

p.130 #58-59

(USE GRAPH PAPER)

Bell WorkDirections: Please simplify the following.

1. $(4x+5)+(5x-6)$

$$4x+5+5x-6 \quad (9x-1)$$



2. $(-x+2)-(x^2-6)$

$$-x+2-x^2+6 \quad (-x^2-x+8)$$

Objectives

1. The students will graph piecewise functions.

{ = AND

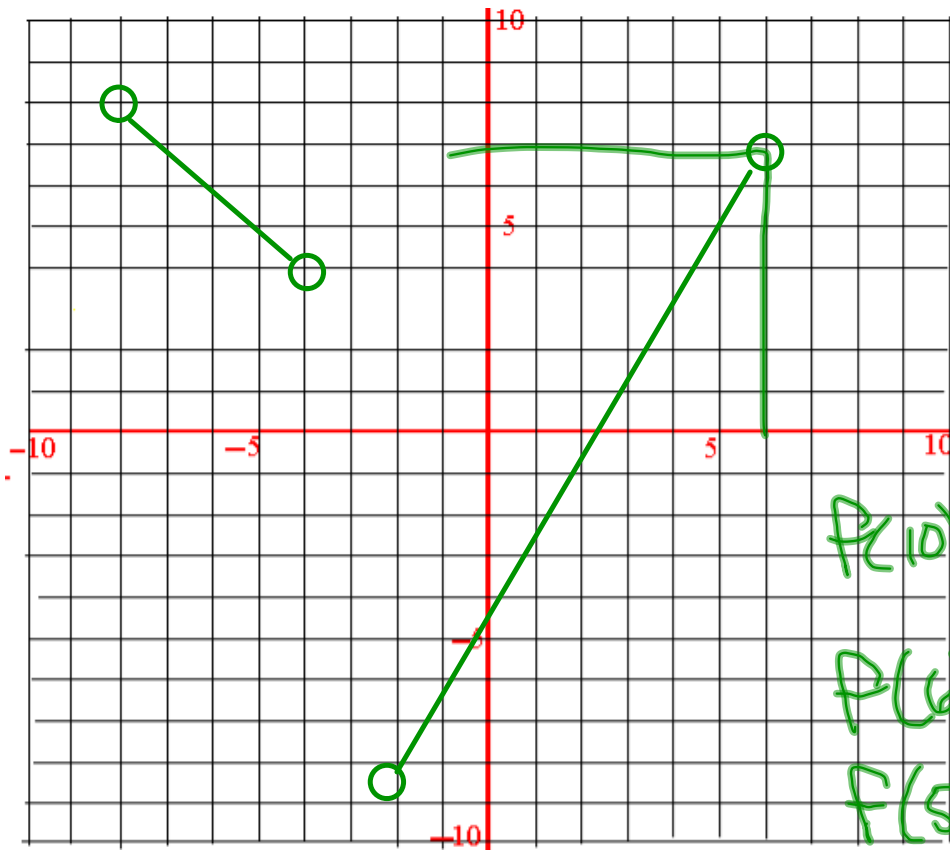
Ex. 1

Graph the Piecewise Function

$$f(x) = \begin{cases} 2x-5 & -2 < x < 6 \\ -x & -8 < x < -4 \end{cases}$$

$$\begin{aligned} b &= -5 \\ m &= \frac{2}{1} \uparrow \end{aligned}$$

$$\begin{aligned} b &= 0 \\ m &= -\frac{1}{1} \rightarrow \end{aligned}$$

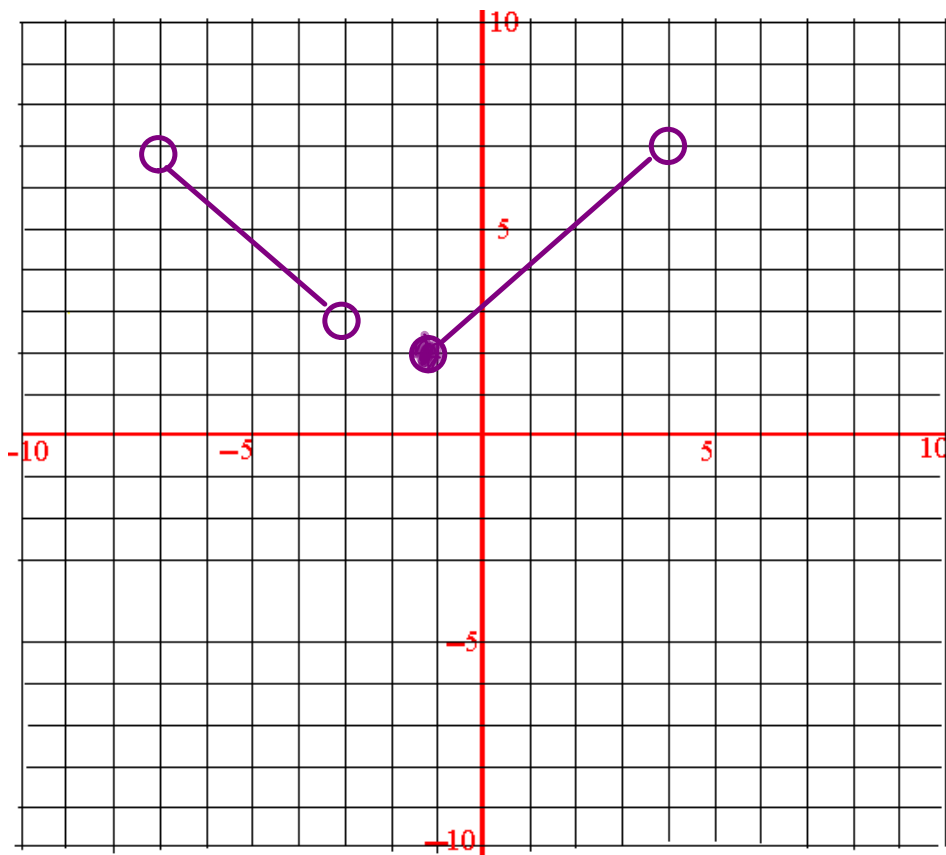
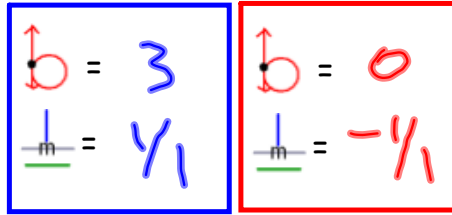


p. 128-9 #5, 6, 16-25

Ex. 2

Graph the Piecewise Function

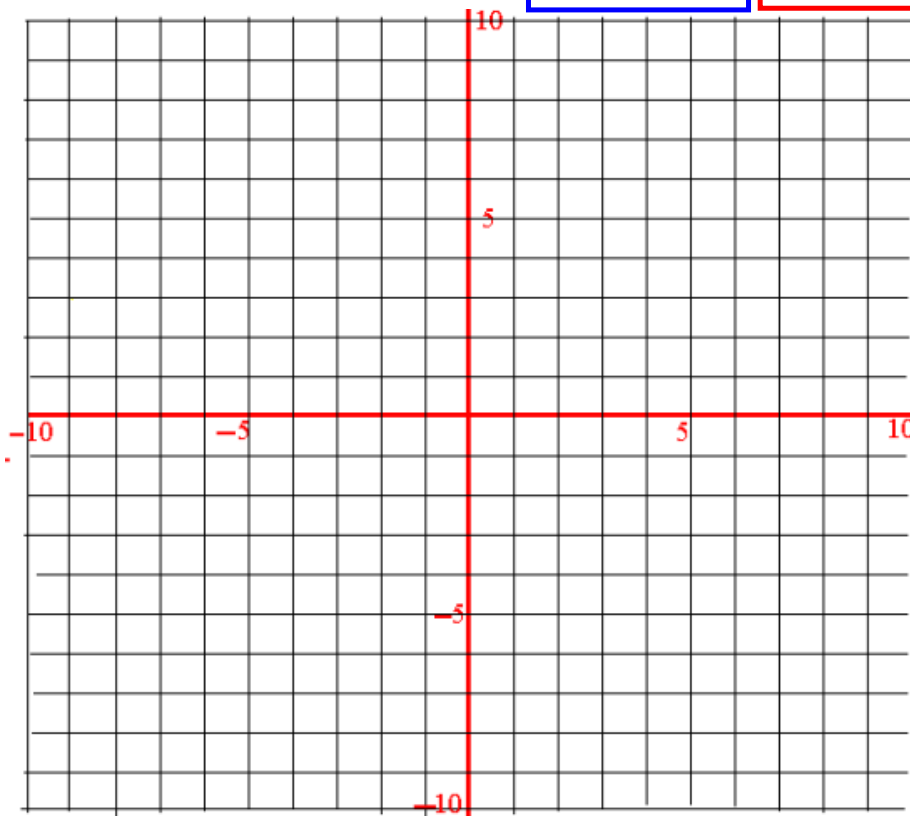
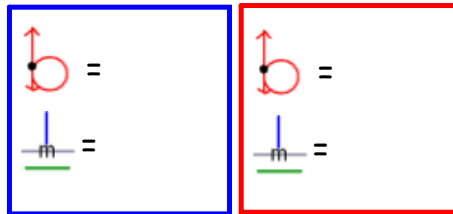
$$m(x) = \begin{cases} x+3 & -1 \leq x < 4 \\ -x & -7 < x < -3 \end{cases}$$



Ex. 3

Graph the Piecewise Function

$$k(x) = \begin{cases} \frac{2x+1}{3} & -2 < x < 6 \\ \frac{-1}{4}x & -8 < x < -4 \end{cases}$$

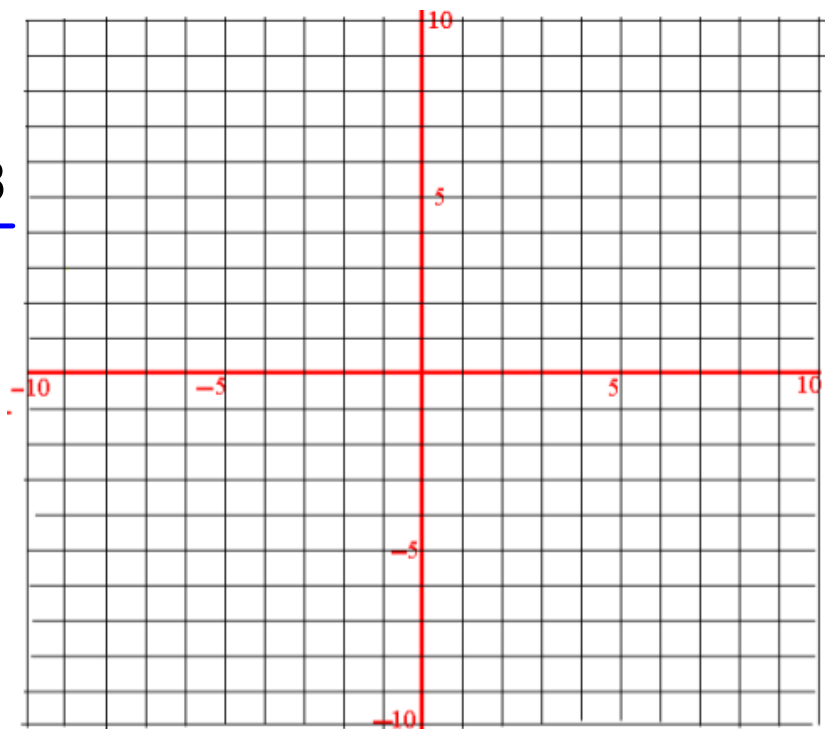


Graph each function and its inverse in the coordinate plane.

$$f(x) = 2|x| - 3$$

x	$ x $	$2 x $	$2 x - 3$

$f^{-1}(x)$	x	y



p.130 #58

Graph each function and its inverse in the coordinate plane.

$$f(x) = 4|x| + 1$$

x	$ x $	$4 x $	$4 x + 1$

$f^{-1}(x)$	x	y

