Bell Work

Solve for x:

$$|3x - 5| + 7 = 26$$

Solve for x:

$$12 > 4|2x+7|$$

From Last Time…

New Material

Page 45 #2-5, 29, 45, 65

Mixed Review

Page 48 #96, 99

ALGEBRA 3

Day 11

Chapter 2 Section 3
Linear Equations

Objective: To write, graph, and solve linear equations

Linear Function Formulas

$$slope = \frac{vertical\ change\ (rise)}{horizontal\ change\ (run)} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$slope - intercept\ form: \quad y = mx + b$$

$$point - slope\ form: y - y_1 = m(x - x_1)$$

Don’t Memorize Them, Apply Them

Given the following two points, find the slope, write the equation, and identify the x and y intercepts.

(-6, 4) and (-2, -12)

What else could they ask us?

Given: (-6, 4) and (-2, -12)

What else could they ask us?

Given: (-6, 4) and (-2, -12)

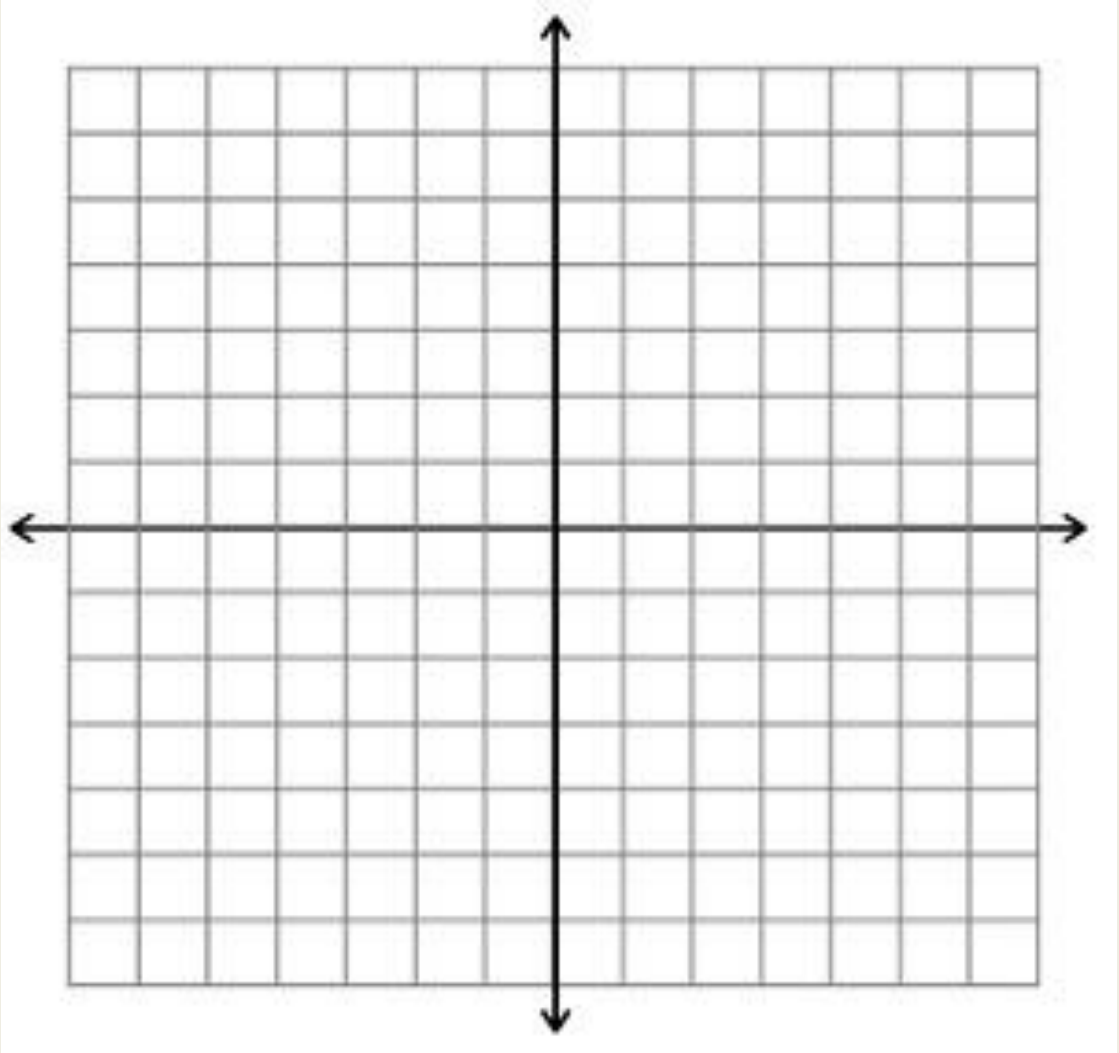
What is the distance between (how far apart are they) these two points?

What is the midpoint of these two points?

Graph.

Graph the following. Is it a function?

$4y - 2x = -12$



Quick Check for Understanding

- Describe the slope between the following two special cases.
  - (4, 2) and (4, -6)
  - (6, -3) and (-1, -3)

For Next Time…

New Material

Page 78 #4-6, 23, 31, 37, 50

Mixed Review

Page 80 #68, 69, 71