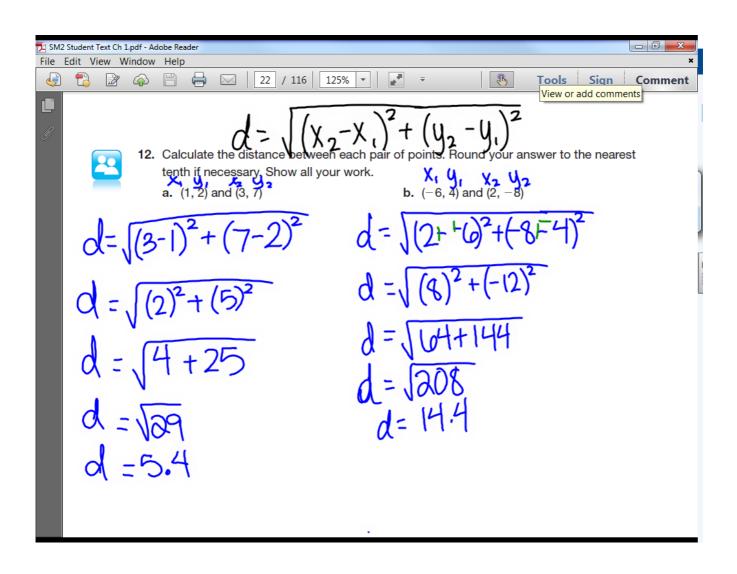
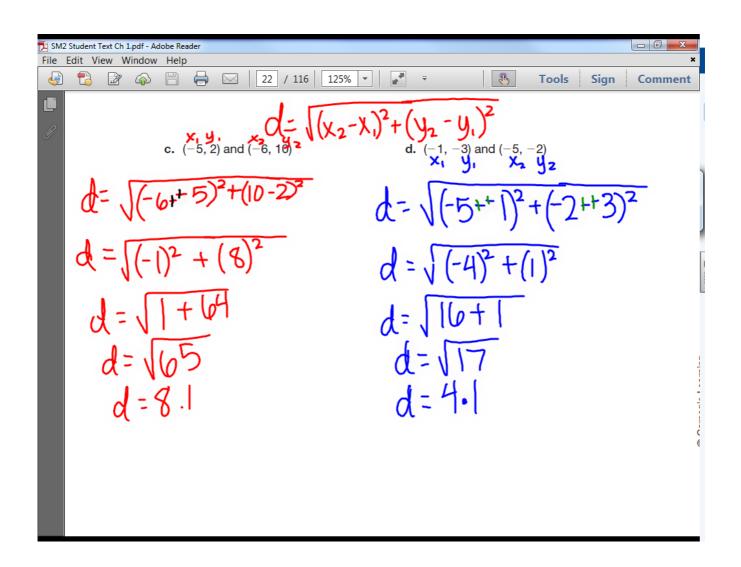
Questions on lesson 1.2?

Look over Lesson 1.2's homework, we will be taking our content mastery quiz soon!





Content Mastery Quiz #3

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$
 Lesson 1.2

you will probably want a calculator

Show ALL work to receive full points

Find the distance between the two points given. Round to one decimal place.

1)
$$(3,4)$$
 and $(5,2)$

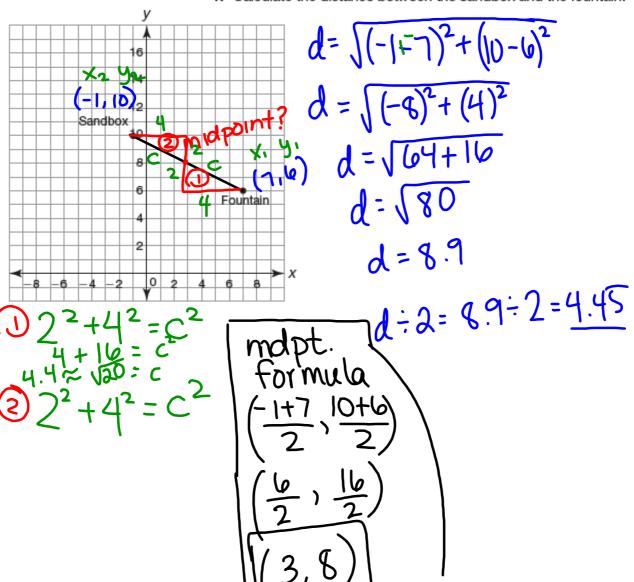


Stuck in the Middle Midpoints and Bisectors

NOT IN BOOK

The grid shows the locations of a sandbox and a fountain in a park. Each grid square represents a square that is one meter long and one meter wide.

1. Calculate the distance between the sandbox and the fountain.



PG.39 IN YOUR BOOK



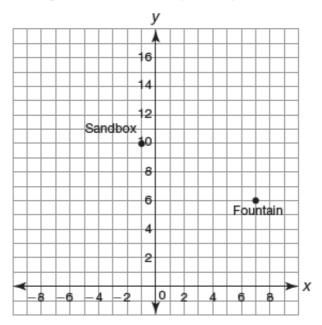
The coordinates of the points that you determined in Questions 5 and 7 are *midpoints*. A midpoint is a point that is exactly halfway between two given points. The calculations you performed can be summarized by the *Midpoint Formula*.

The Midpoint Formula states that if (x_1, y_1) and (x_2, y_2) are two points on the coordinate plane, then the midpoint of the line segment that joins these two points is

$$\left|\frac{x_1+x_2}{2},\frac{y_1+y_2}{2}\right|.$$

$$\left(\frac{\chi_1 + \chi_2}{2}, \frac{y_1 + y_2}{2}\right)$$
STILL NOT IN YOUR BOOK

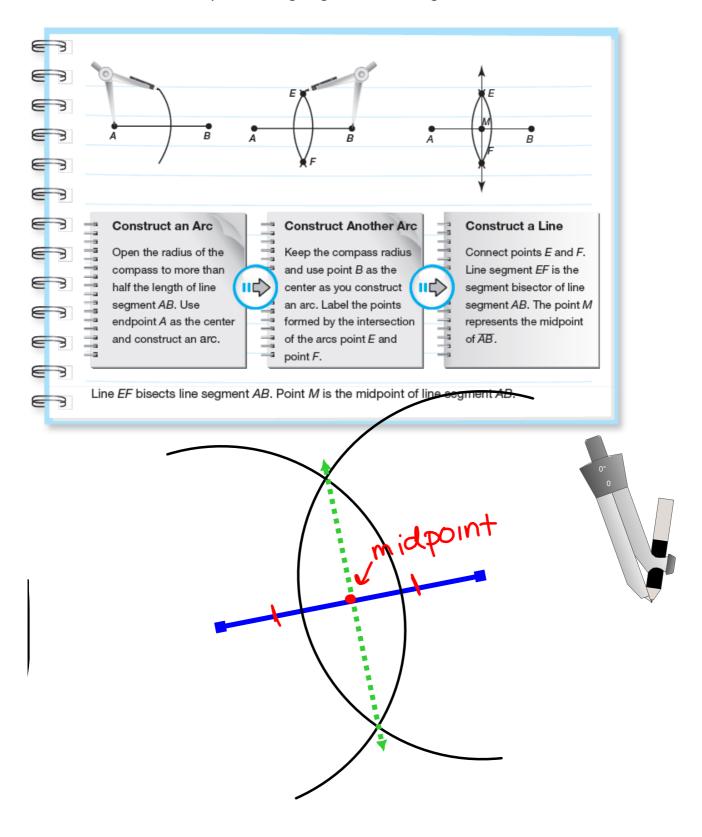
- 2. You decide to meet your friend halfway between the fountain and sandbox.
 - a. Calculate the midpoint of the line segment that passes through the point representing the sandbox and the point representing the fountain. Then, plot the point.



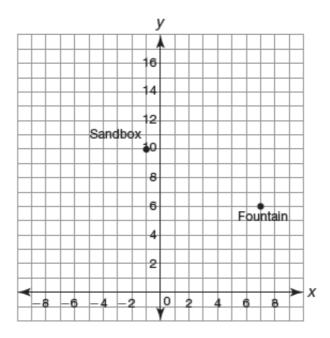
PG.46 IN YOUR BOOK

Constructing a segment bisector (and midpoint)

You can use a compass and straightedge to construct a segment bisector.



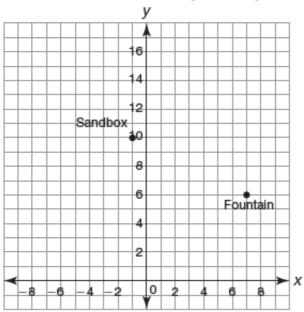
STILL NOT IN YOUR BOOK



here's the rest of #2 that wasn't in your book before

b. Verify your calculations in part (a) by constructing the midpoint of the line connecting the sandbox and the fountain.





- 3. The swings are located at (-4, 7), which is halfway between the sandbox and the slide.
 - a. Plot and label the point representing the swings.
 - b. Calculate the location of the slide. Show your work. Then, plot and label the point representing the slide.
 - c. Verify your calculations in part (b) by constructing the midpoint of the line connecting the sandbox and the slide.

Homework

Finish lesson 1.3