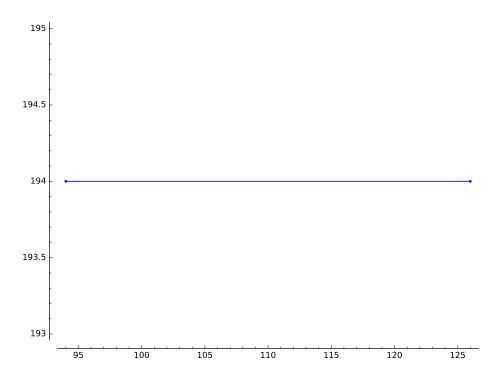
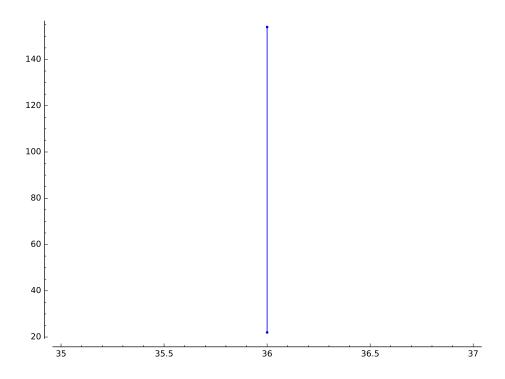
## Homework 3

## Madison

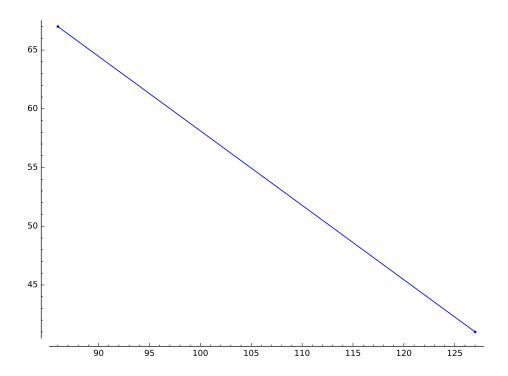
## August 24, 2018



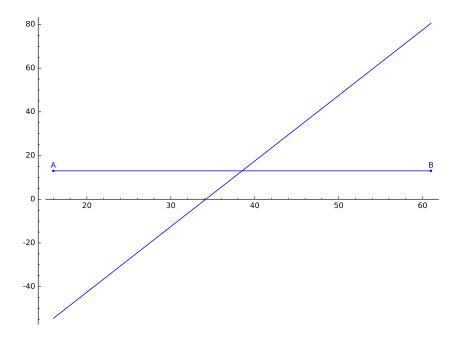
**Problem 1.** Given A(94, 194) and B(126, 194), calculate the midpoint of  $\overline{AB}$  and the distance  $|\overline{AB}|$ .



**Problem 2.** Given A(36, 154) and B(36, 22), calculate the midpoint of  $\overline{AB}$  and the distance  $|\overline{AB}|$ .



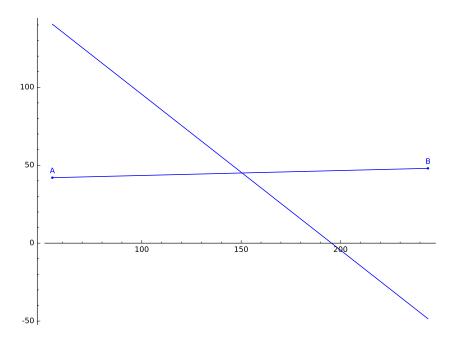
**Problem 3.** Given A(86, 67) and B(127, 41), calculate the midpoint of  $\overline{AB}$ .



**Problem 4.** Given A(16, 13) and B(61, 13), calculate the midpoint of  $\overline{AB}$ . Then, determine if

$$y(x) = 3x - 102.500000000000$$

bisects  $\overline{AB}$ .



**Problem 5.** Given A(55, 42) and B(244, 48), calculate the midpoint of  $\overline{AB}$ . Then, determine if

$$y(x) = -x + 195.5000000000000$$

bisects  $\overline{AB}$ .