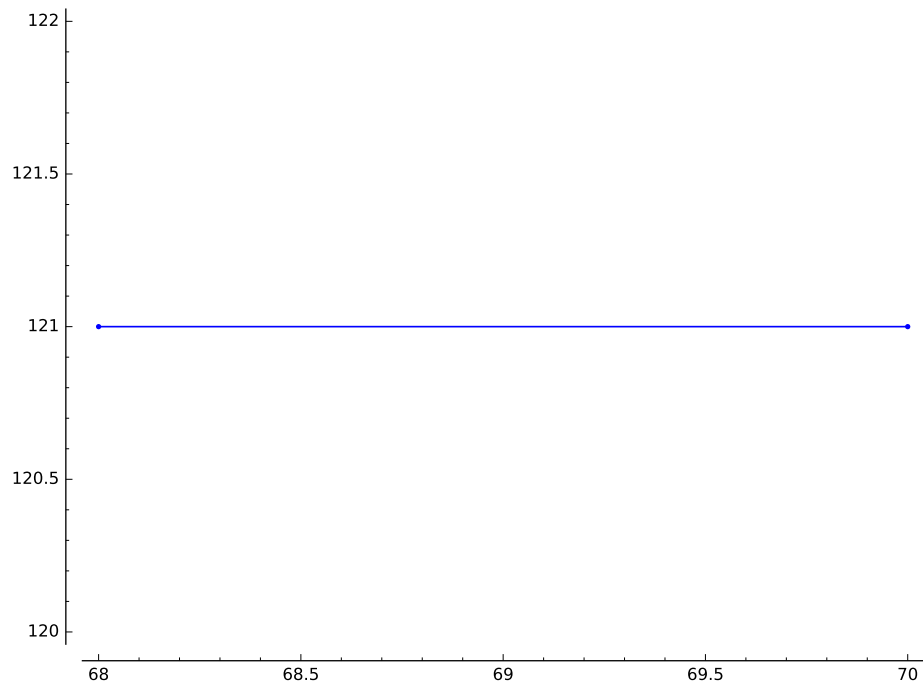


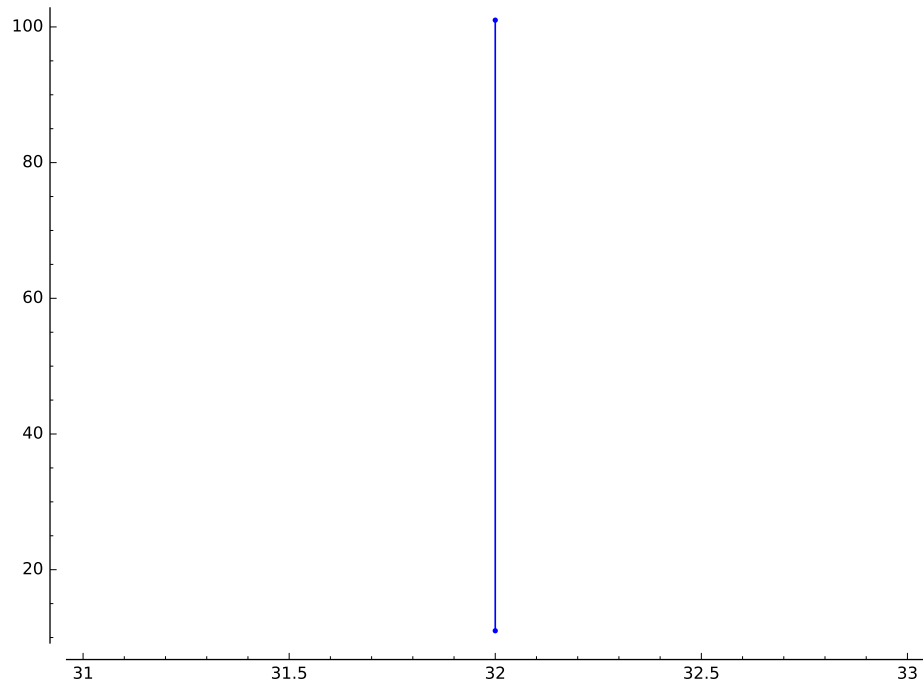
# Homework 3

Chantel

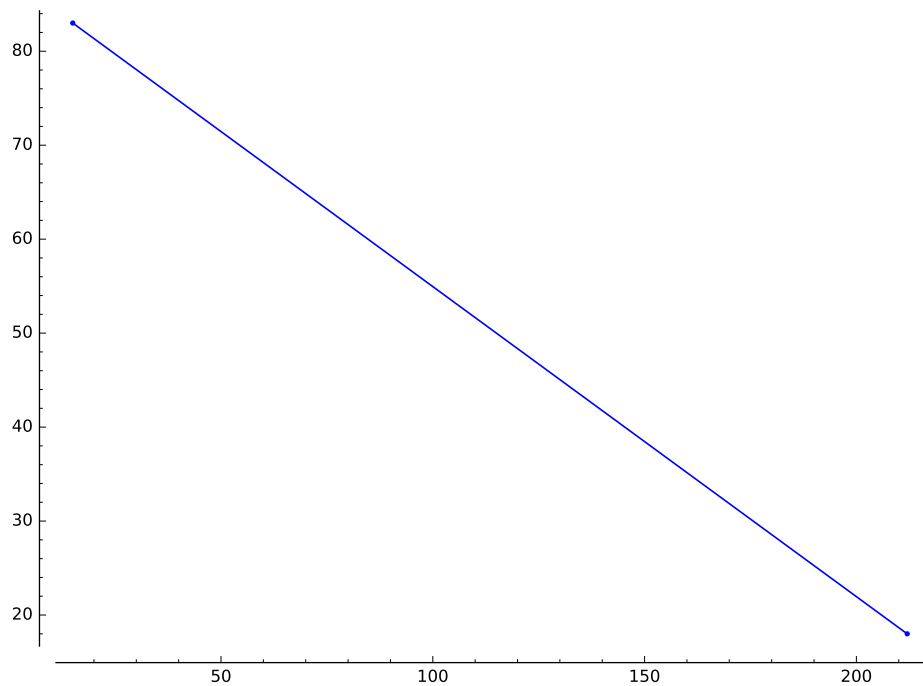
August 24, 2018



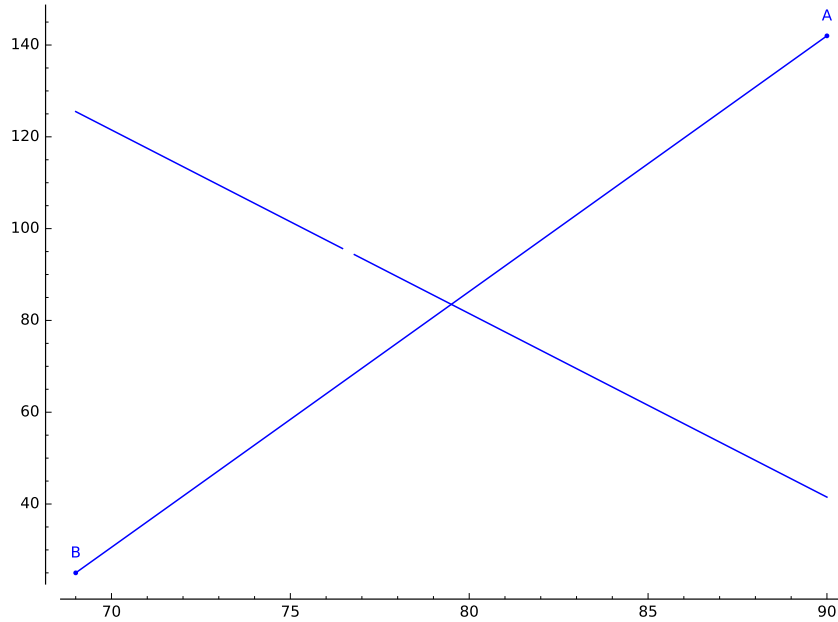
**Problem 1.** Given  $A(68, 121)$  and  $B(70, 121)$ , calculate the midpoint of  $\overline{AB}$  and the distance  $|\overline{AB}|$ .



**Problem 2.** Given  $A(32, 101)$  and  $B(32, 11)$ , calculate the midpoint of  $\overline{AB}$  and the distance  $|\overline{AB}|$ .



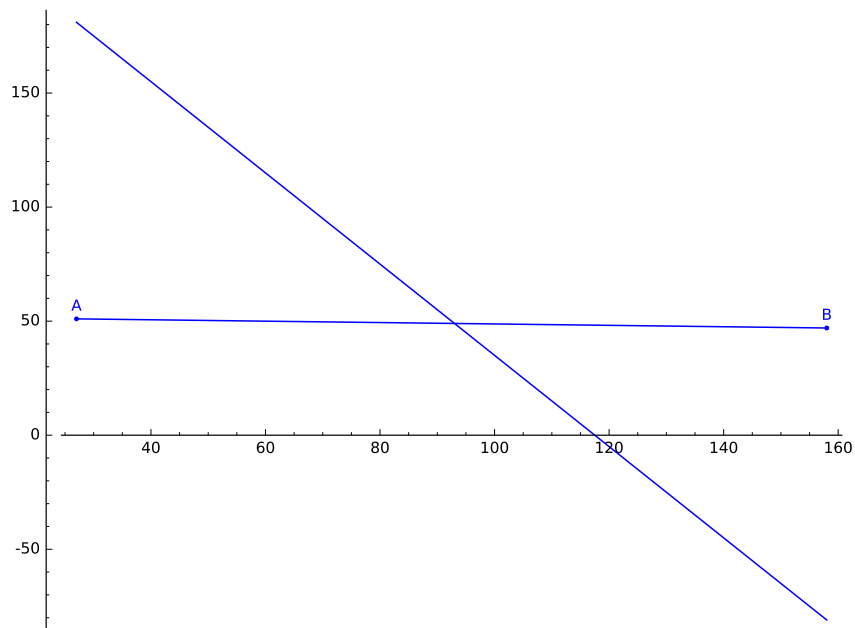
**Problem 3.** Given  $A(15, 83)$  and  $B(212, 18)$ , calculate the midpoint of  $\overline{AB}$ .



**Problem 4.** Given  $A(90, 142)$  and  $B(69, 25)$ , calculate the midpoint of  $\overline{AB}$ . Then, determine if

$$y(x) = -4x + 401.500000000000$$

bisects  $\overline{AB}$ .



**Problem 5.** Given  $A(27, 51)$  and  $B(158, 47)$ , calculate the midpoint of  $\overline{AB}$ . Then, determine if

$$y(x) = -2x + 235.000000000000$$

bisects  $\overline{AB}$ .