

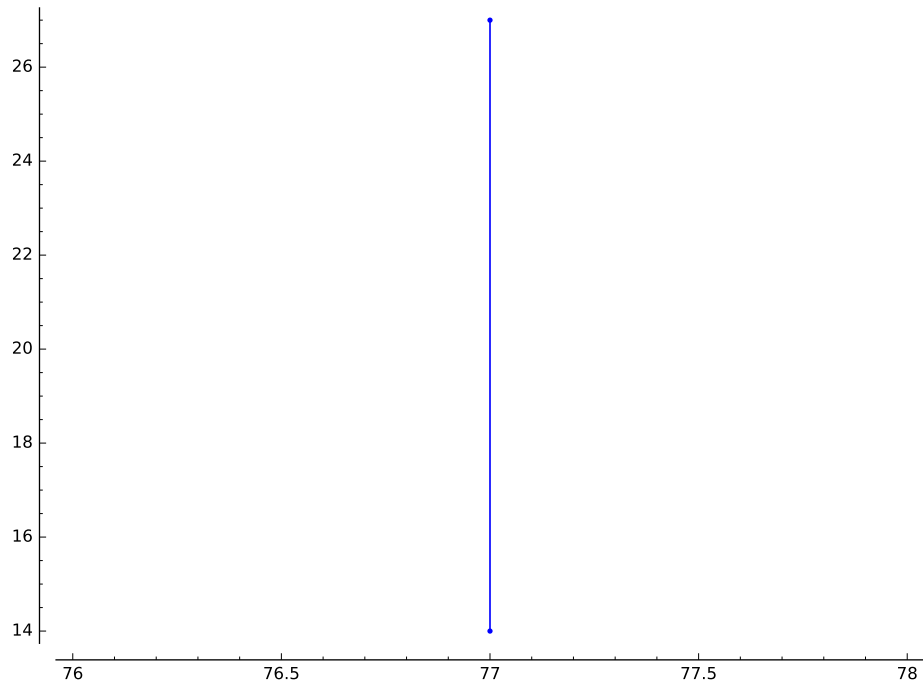
# Homework 3

Christian

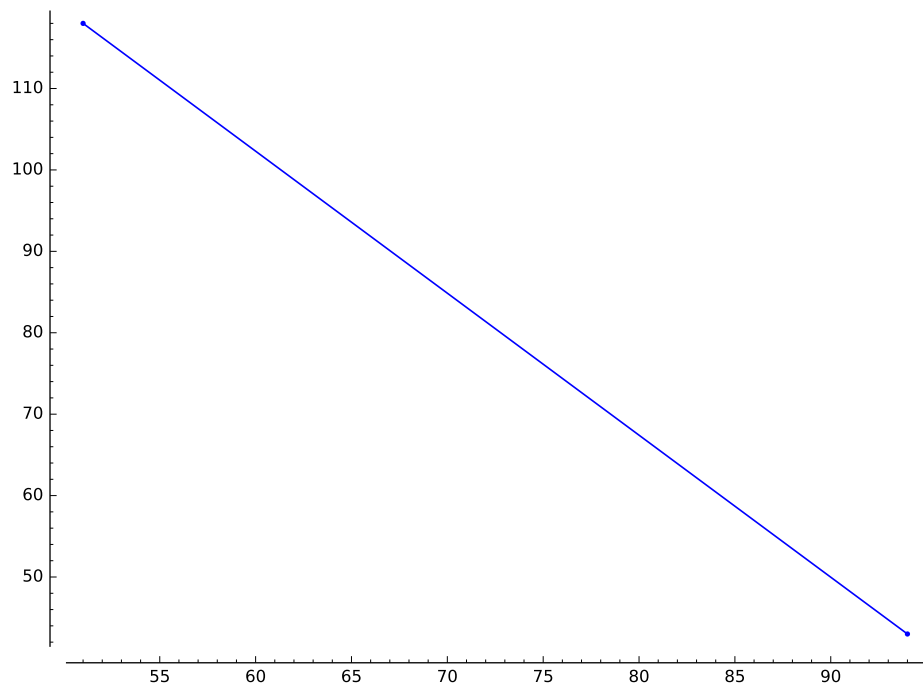
August 24, 2018



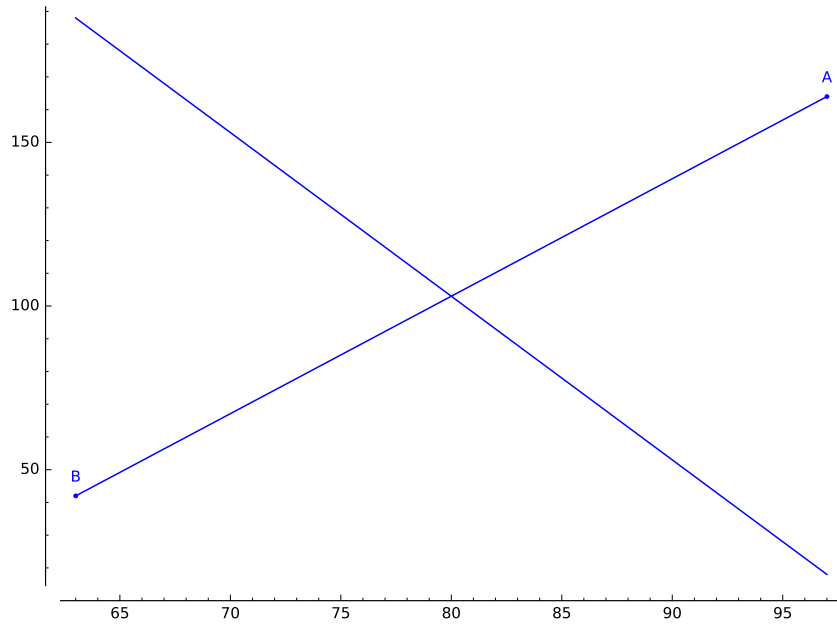
**Problem 1.** Given  $A(37, 38)$  and  $B(264, 38)$ , calculate the midpoint of  $\overline{AB}$  and the distance  $|\overline{AB}|$ .



**Problem 2.** Given  $A(77, 14)$  and  $B(77, 27)$ , calculate the midpoint of  $\overline{AB}$  and the distance  $|\overline{AB}|$ .



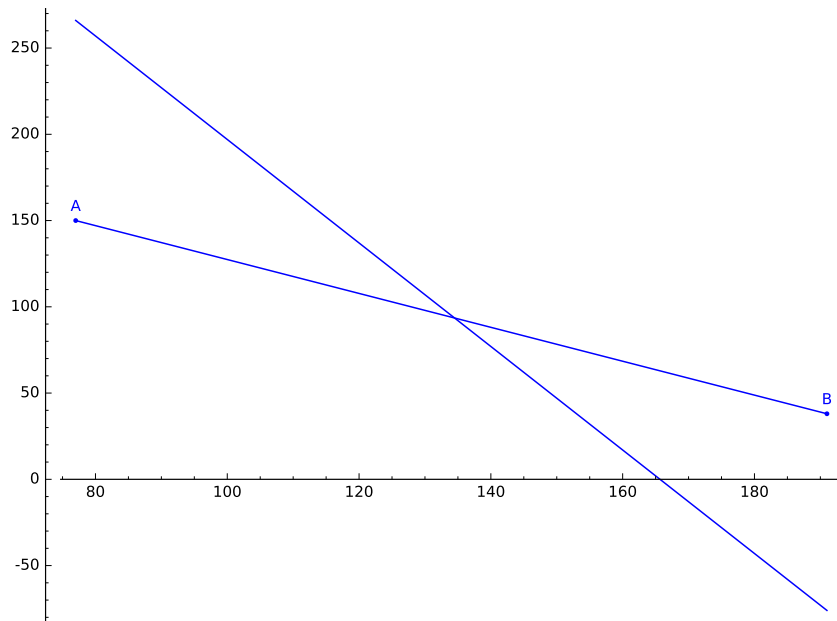
**Problem 3.** Given  $A(51, 118)$  and  $B(94, 43)$ , calculate the midpoint of  $\overline{AB}$ .



**Problem 4.** Given  $A(97, 164)$  and  $B(63, 42)$ , calculate the midpoint of  $\overline{AB}$ . Then, determine if

$$y(x) = -5x + 503.000000000000$$

bisects  $\overline{AB}$ .



**Problem 5.** Given  $A(77, 150)$  and  $B(191, 38)$ , calculate the midpoint of  $\overline{AB}$ . Then, determine if

$$y(x) = -3x + 497.000000000000$$

bisects  $\overline{AB}$ .