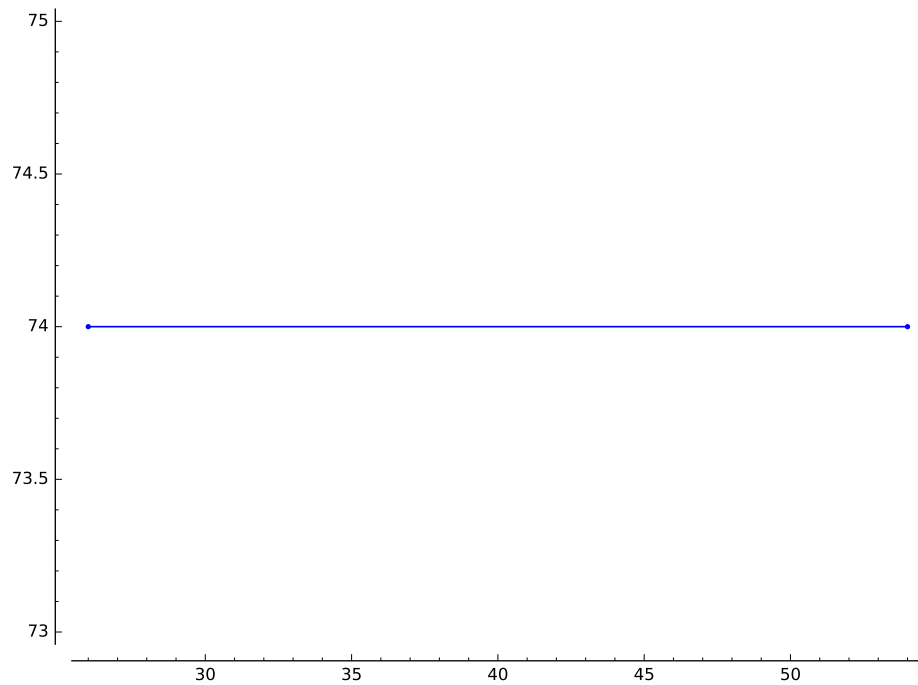


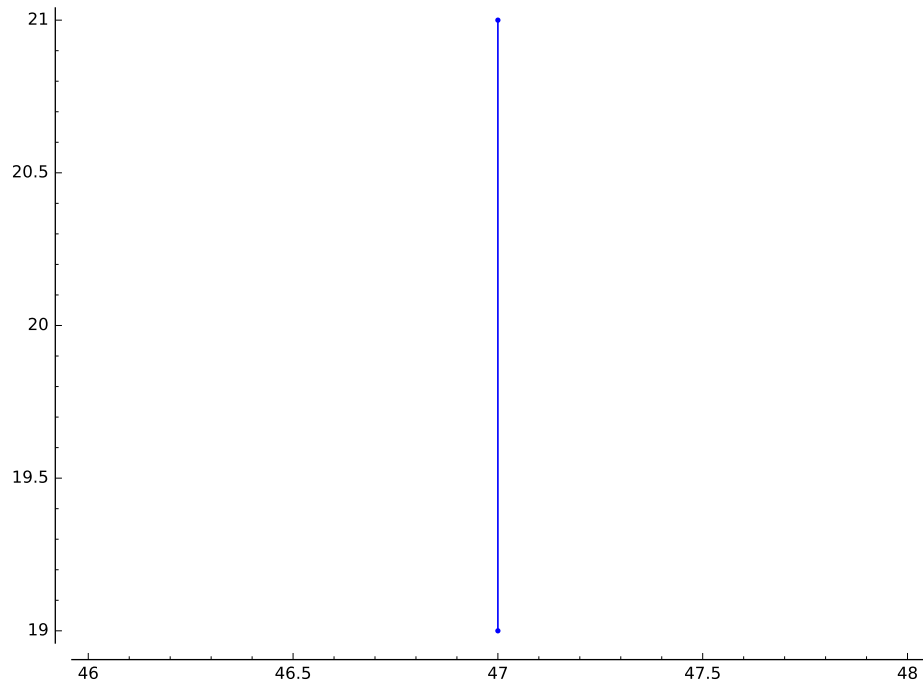
# Homework 3

Jake

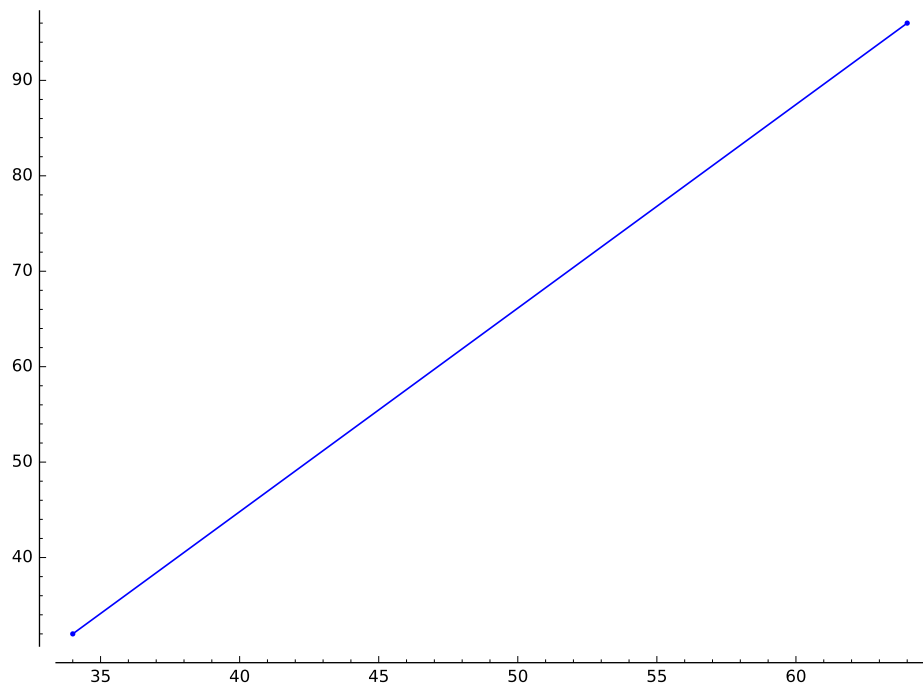
August 24, 2018



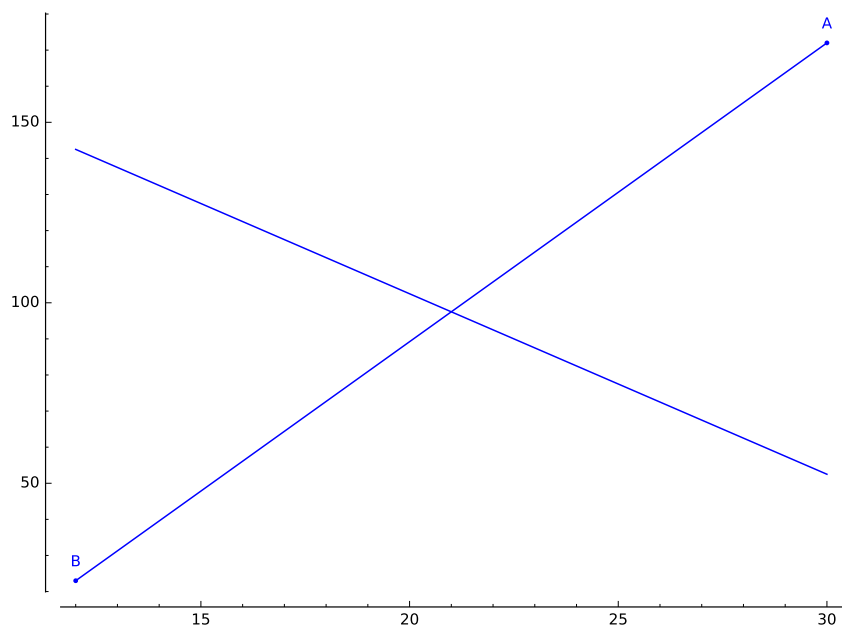
**Problem 1.** Given  $A(26, 74)$  and  $B(54, 74)$ , calculate the midpoint of  $\overline{AB}$  and the distance  $|\overline{AB}|$ .



**Problem 2.** Given  $A(47, 21)$  and  $B(47, 19)$ , calculate the midpoint of  $\overline{AB}$  and the distance  $|\overline{AB}|$ .



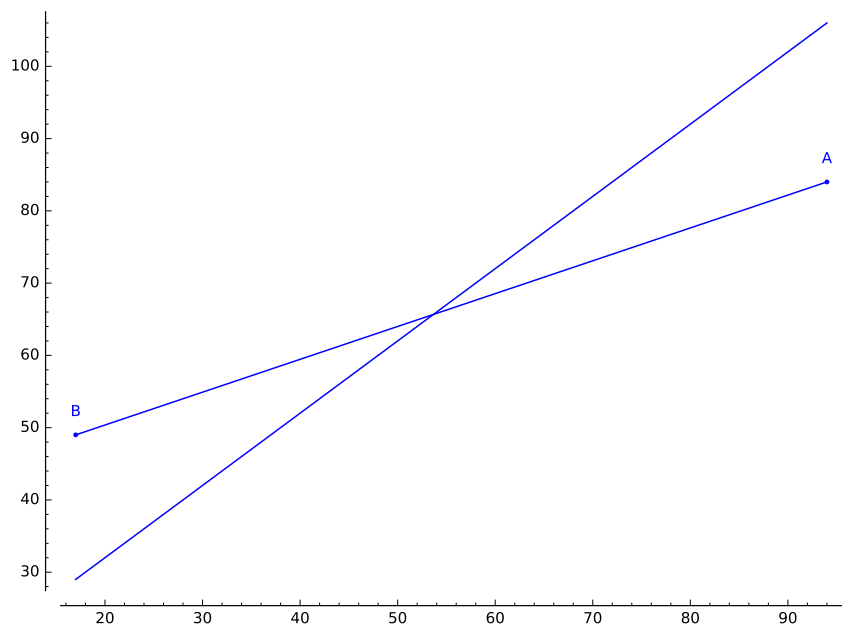
**Problem 3.** Given  $A(64, 96)$  and  $B(34, 32)$ , calculate the midpoint of  $\overline{AB}$ .



**Problem 4.** Given  $A(30, 172)$  and  $B(12, 23)$ , calculate the midpoint of  $\overline{AB}$ . Then, determine if

$$y(x) = -5x + 202.500000000000$$

bisects  $\overline{AB}$ .



**Problem 5.** Given  $A(94, 84)$  and  $B(17, 49)$ , calculate the midpoint of  $\overline{AB}$ . Then, determine if

$$y(x) = x + 12.0000000000000$$

bisects  $\overline{AB}$ .