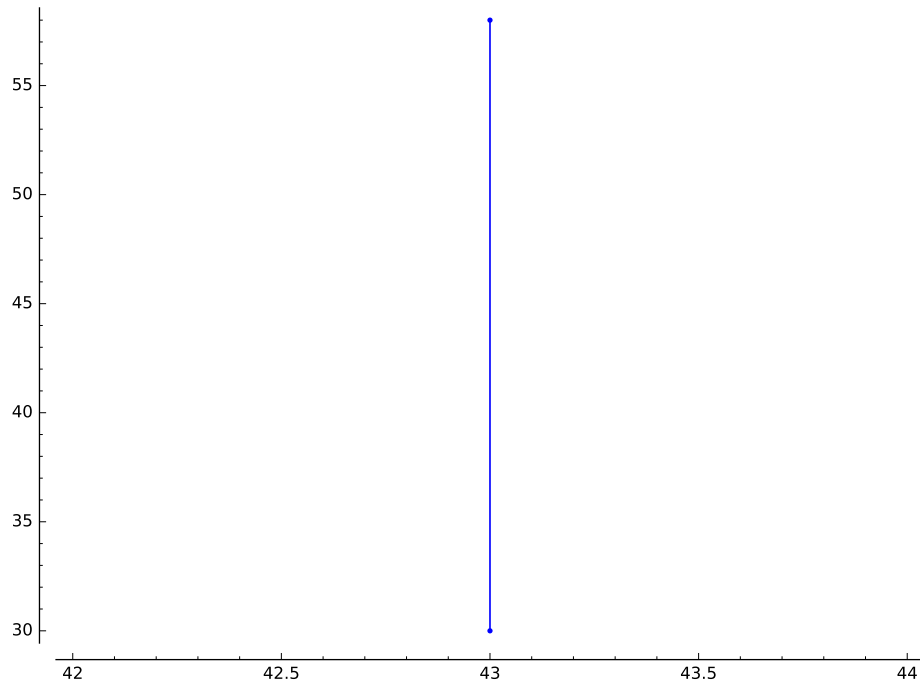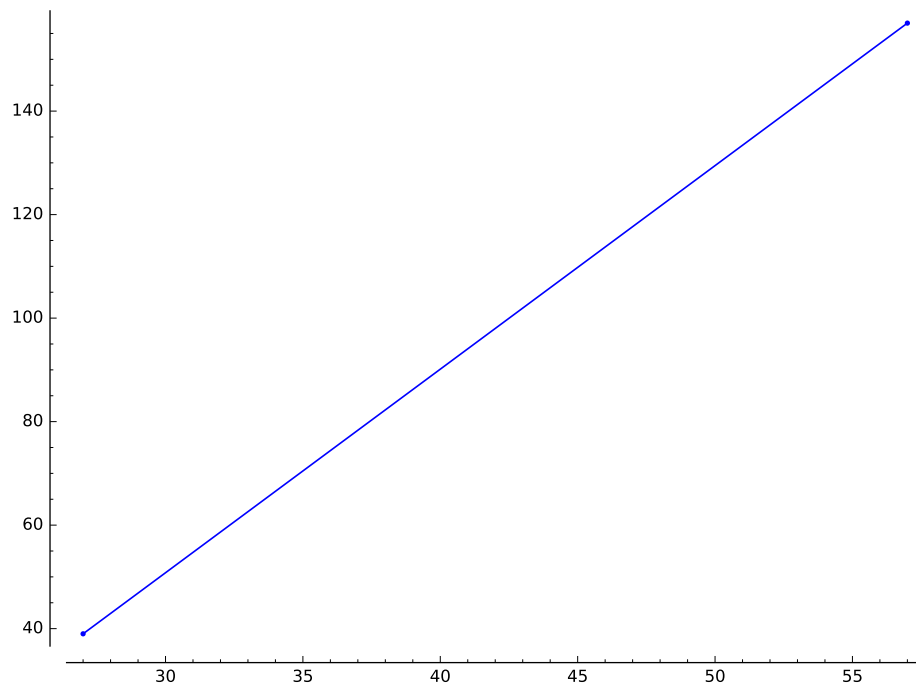# Homework 3

Cooper

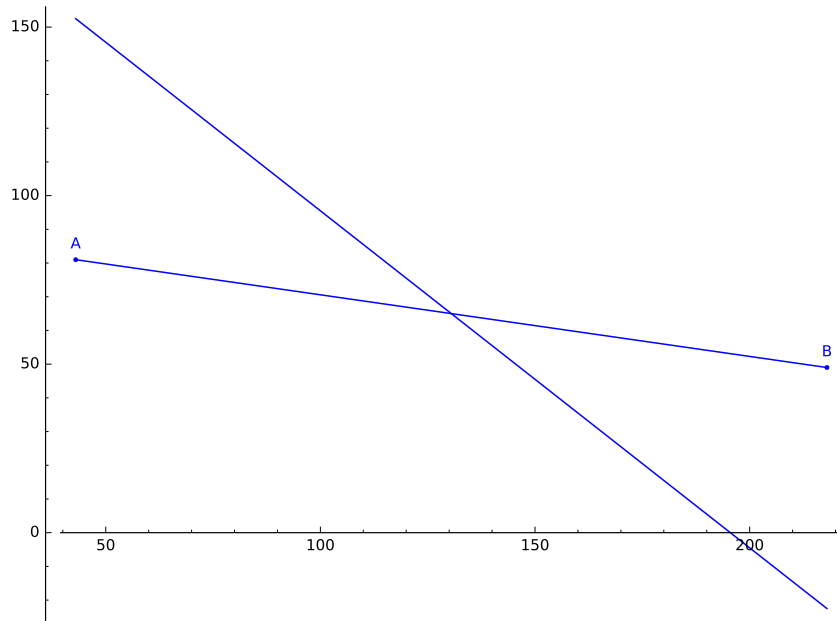## August 24, 2018

Problem 1. Given $A(60, 105)$ and $B(208, 105)$, calculate the midpoint of $\overline{AB}$ and the distance $|\,\overline{AB}\,|$.

Problem 2. Given $A(43, 58)$ and $B(43, 30)$, calculate the midpoint of $\overline{AB}$ and the distance $|\overline{AB}|$.
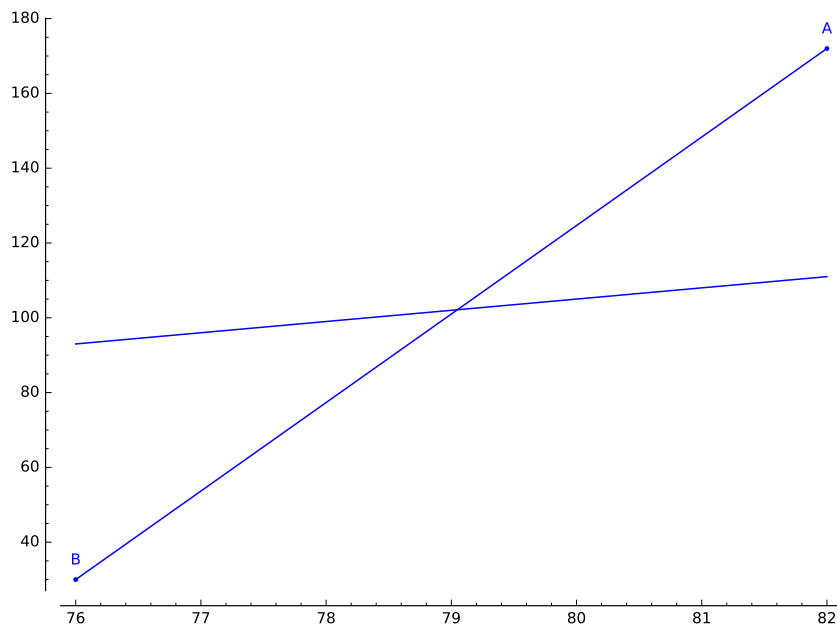

Problem 3. Given $A(57, 157)$ and $B(27, 39)$, calculate the midpoint of $\overline{AB}$.

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Problem 4. Given $A(43, 81)$ and $B(218, 49)$, calculate the midpoint of $\overline{AB}$. Then, determine if

$$y(x) = -x + 195.500000000000$$

bisects $\overline{AB}$.

Problem 5. Given $A(82, 172)$ and $B(76, 30)$, calculate the midpoint of $\overline{AB}$. Then, determine if

$$y(x) = 3\,x - 135.000000000000$$

bisects $\overline{AB}$.