

Analyzing Income Inequality by Race

Use your knowledge of rate of change to analyze the median annual income to define whether income inequality has gotten better or worse since the late 1960s.

Determine the annual rate at which income has increased or decreased for each group. Graph the coordinate pairs and sketch a line for each race.

Median Annual Income

Race	Year	Income
white	1967	\$44,700
Black	1967	\$24,700
Latinx	1970	\$34,000
Asian	1987	\$63,400
white	2014	\$71,300
Black	2014	\$43,030
Latinx	2014	\$43,300
Asian	2014	\$77,900

Race	Rate of Change	What does this mean?
white		
Black		
Latinx		
Asian		

Reflecting on Income Inequality by Race

1. Rank rate of change by race from least to greatest.

2. Has income inequality gotten better or worse since 1967? Explain.

3. Determine the year in which you will turn 40 and extend the lines of your graphs by adding the year and income.
 - a. What's one thing you notice about these lines over time?

 - b. What's one thing you wonder about these lines over time?

4. Choose an income level in the year you turn 40 for each race that eliminates income inequality.
 - a. What needs to happen on the graph specifically in order to eliminate income inequality?

 - b. Calculate the rate of change necessary for each race to achieve this level of income.

 - c. Is a linear model appropriate to use? Explain.