## Modeling HW 1: Faculty Slopes

In 2007, there were 95 full-time faculty at COCC. There were also 32 adjunct faculty and 135 part time faculty. In 2018, there were 135 full-time faculty, 50 adjunct faculty and 171 part-time faculty. Assume (for now) that the number of thee 3 kinds of faculty grew consistently year-to-year through all that time.

We're going to use Sheets to create a 3-part line graph for this information. <u>I'll show you how here</u> if you need help! And, in case your graph looks kinda weird, <u>try this video</u>!

- 1. (1 point) Take a screenshot of your line graph (make sure you do the faculty data above!) and include it as your answer to this question!
- 2. **(6 points...2 for each) (w)** Calculate the slopes of those lines (remember that slope is "rise over run"), getting the denominator down to "1" in each! Round off to the nearest whole faculty member for the numerators, and don't forget the unit on the slope!
- 3. **(3 points)** What do your slopes mean, in the context of the data? Write a sentence to explain. Be sure to use the phrase "decreasing by" or "increasing by"!