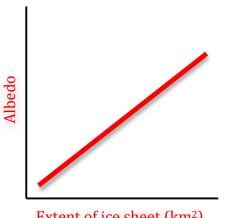
- 1) Which of the following factors are necessary in a black-body model to predict the historical average surface temperature of the Earth within a few degrees? (Circle all that apply)
 - a. The distance from the sun
 - b. The albedo of the Earth
 - c. The concentration of $C0_2$, CH_4 , and H₂0 in the atmosphere

- d. The circulation of the ocean currents
- e. The topography of the land masses
- 2) True or False: It is impossible to understand the causal relation between greenhouse gasses and global climate because we cannot experiment with whole planets.



3) On the axes to the left, draw the relationship you would expect between the extent (i.e., size) of the Greenland Ice sheet and the average albedo of Greenland. Be sure to label your axes. (3pts)

/5pts

Extent of ice sheet (km²)

Quiz 4

Name

- 1) Which of the following factors are necessary in a black-body model to predict the historical average surface temperature of the Earth within a few degrees? (Circle all that apply)
 - a. The distance from the sun
 - b. The albedo of the Earth
 - c. The concentration of CO_2 , CH_4 , and H₂0 in the atmosphere

- d. The circulation of the ocean currents
- e. The topography of the land masses
- 2) True or False: It is impossible to understand the causal relation between greenhouse gasses and global climate because we cannot experiment with whole planets.
- 3) On the axes to the left, draw the relationship you would expect between the extent (i.e., size) of the Greenland Ice sheet and the average albedo of Greenland. Be sure to label your axes. (3pts)

/5pts