Name:_____**Period:**_____ **Date:**_____

Geometry: Open Response **ALL work must be done in the grid below.**

1. Amy works in Chicago and in New York City. She travels by taxi in Chicago.

   (a) She pays a fixed taxi fare of \$2.00 per ride, plus \$1.50 per mile traveled. Write an equation that expresses f, Amys total fare for a taxi ride in Chicago, as a function of m, the number of miles traveled.

   (b) Graph the function f.

   (c) What is the y-intercept and what does this stand for in our problem?

   (d) Find the fare before tips for a 20 mile trip to his hotel.

   (e) If Amy payed \$110 before tips for a trip to a conference, how many miles did he travel?