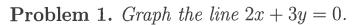
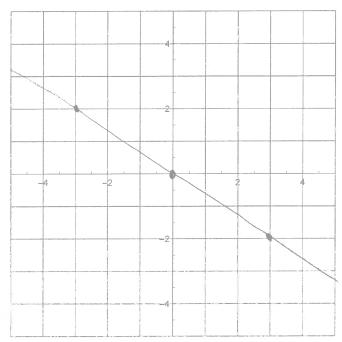
Math 105 - Finite Mathematics - J-term 2017 Quiz 1 January 4, 2017

Name:





(0,0), (-3,2)

Problem 2. In 2012, the estimated population in Ethiopia was 94 million people with a relative growth rate of 3.2%.

- (a) Write an equation that models the population growth in Ethiopia, letting 2012 be year 0.
- (b) Based on the model, what is the expected population in Ethiopia (to the nearest million) in 2025?

(b)
$$P(13) = 94e^{0.032(13)} = 142 \text{ million}$$