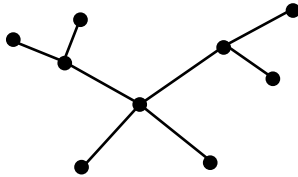
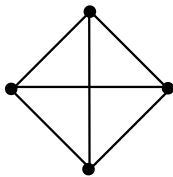


Name:

Date: Friday, September 9, 2016

MATH 181 F1 Quiz #3**Directions:** You have 15 minutes for this quiz. Please write clearly and justify your answers.**Question 1 (3 points):** Consider the graph below.

- Is this graph 2-colorable?
- Is this graph 3-colorable?
- What is the chromatic number of this graph?

Question 2 (3 points): Consider the graph below.

- Is this graph 3-colorable?
- Is this graph 4-colorable?
- What is the chromatic number of this graph?

Question 3 (4 points):**Find the chromatic number for each graph below (please justify).****Color the graph with that many colors.**

a.) (2 points)

b.) (2 points)

