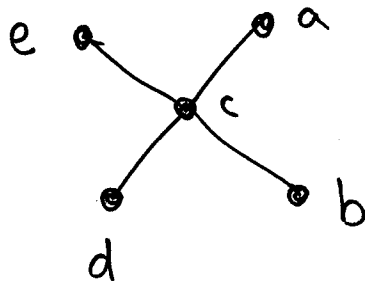Name ___Prof. M___

Mathematics 2602
Quiz 9
Prof. Margalit
10 April 2013

1. Draw a picture of the graph $G(V, E)$ where $V = \{a, b, c, d, e\}$ and $E = \{\{a, c\}, \{b, c\}, \{c, d\}, \{c, e\}\}$.

2. Is $G(V, E)$ a complete bipartite graph $K_{m,n}$? If so, which m and n? If not, why not?

$$K_{1,4}$$

3. Is there an isomorphism of $G(V, E)$ with itself that is not the identity? If so, give an isomorphism. If not, say why not.

$$f(a) = b$$
$$f(b) = a$$
$$f(c) = c$$
$$f(d) = d$$
$$f(e) = e$$