1. ( 5 pts ) Circle if each of the following statements is true or false. No justification needed, but you may get a 1 pt bonus for a correct justification of (d) or (e).
(a) $K_{5}$ is planar. True False
(b) A graph $G$ is planar if and only if $G$ is spheroidal.

True
False
(c) $K_{3,4}$ is toroidal (that is, $K_{3,4}$ can be embedded with no edge crossings on the torus).

True
False
(d) Any graph $G$ which is spheroidal is also toroidal.

True False
(e) If $G$ is a maximal planar graph with $p \geq 4$ vertices, then $\delta(G) \geq 3$. True False

