Homework Exercise
Due: February 18, 2002

3. Prove that Byzantine consensus is impossible in a synchronous message-passing system that can have as many as f Byzantine failures if the connectivity of the network is less than or equal to $2f$.

Hint: In class, we showed impossibility for the special case of a particular graph of 4 nodes with connectivity 2 and $f = 1$. You can solve the problem by adapting that argument.