1. When we talked about limits, we saw that there are basically three things that can prevent a function from having a limit at a point. Since the concept of continuity is tied to the one of limit, the ideas behind those three examples carry over to what we saw in class today. Explain the three main types of discontinuities and give an example of each. You can of course check the book for that, the purpose of this exercise is for you to be comfortable with connecting the materials we covered in class.

2. Read the Intermediate Value Theorem for Continuous Functions in section 2.5 and check an example of how to use it to show that some equations have solutions (even if we can't find them explicitly).