Math 215: Introduction to Advanced Mathematics Problem Set 7

Due: Friday October 25

Do the following problems from the text: pg 117-118: 15, 16, 18, 19,

- 1) Suppose $f: X \to Y, g: Y \to Z$ and $g \circ f$ is surjective.
 - a) Must f be surjective?
 - b) Must g be surjective?

Justify your answers by giving a proof or a counter-example.