

Math 215: Introduction to Advanced Mathematics
Problem Set 7

Due: Friday October 26

Do the following problems from the text: pg 117-118: 14, 16, 18, 19,

- 1) Suppose $f : X \rightarrow Y$, $g : Y \rightarrow Z$ 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.