

Special Problem 3.5-2

The circuit below is a **rectifier** that is different from any we have yet studied.

For example, the diodes are **IDEAL diodes** (also note their direction).

- 1) Determine the **transfer function** of this rectifier
- 2) Carefully **sketch below the output voltage v_o** if the input signal v_i is that shown below.
- 3) What is the **peak inverse voltage** if the input voltage **shown below** is applied (I want a **numerical answer**)?
- 4) Across **which diodes** does this peak inverse voltage appear ?



