## Special Problem 3.5-3

The diodes in this bridge rectifier are IDEAL.

Note that the total source voltage consists of an AC and a DC (1.0 V) component.

- 1) Determine the transfer function of this rectifier circuit.
- 2) Carefully sketch below the output voltage  $v_o(t)$  if the AC signal  $v_s(t)$  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?

