ECE 341 Quiz 3

A transmission line of characteristic impedance $Z_0 = 50 \, \Omega$ is terminated in a load $Z_L = 75 \, \Omega$. Is the load at a voltage maximum or a voltage minimum? (Not asking yes or no, but which.) Why?

**Answers**
Maximum. $Z_L > Z_0$, constructive interference therefore maximum.

**Grading guideline**
60: Attendance points. Student gets 60 if no right answer is given.

70: Answers maximum but gives wrong reason. (If correct reasons are given among wrong ones, count only the right ones; see below)

90: Answers maximum with largely right reasons but with inaccuracy in the language or math or terminology.

100: Answers maximum with right reasons (even with minor inaccuracy or typos).