SP 211 Worksheet
Ch. 16.2 & 16.5, Wave Speed & Interference

1) A wave is traveling on a long stretched string with tension $F_T$ and linear mass density $\mu$. In order to double the wave speed, by how much should you change a) the tension, or b) the mass density of the string?

2) Two waves are traveling through the same medium. They are identical in all respects except for one: one wave has $\phi = 0$, and the other wave has $\phi = \pi/2$. What is the amplitude of the resultant wave?