A wave on a string starts in a very heavy string and travels towards a very light string. When the wave enters the light string,

A. most of the wave is reflected back; very little of the wave transmits through the light string
B. some of the wave is reflected back; some of the wave transmits through light string
C. very little of the wave is reflected back; most of the wave transmits through light string
D. ???

Claim: For a wave heading towards a boundary between two media at an oblique angle, $\omega_I = \omega_R = \omega_T$.

A. True

B. False

Claim: For a wave heading towards a boundary between two media at an oblique angle, at the boundary,

$$\mathbf{k}_I \cdot \mathbf{r} = \mathbf{k}_R \cdot \mathbf{r} \neq \mathbf{k}_T \cdot \mathbf{r}.$$

A. True

B. False