

Wave = —

$A = .15 \text{ m}$

Reflected Wave = ---

a)

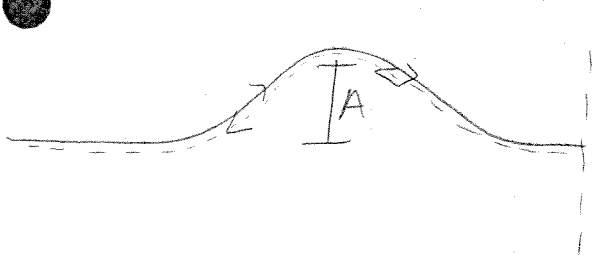


- At fixed boundary, reflected wave is out of phase

$$A_{\text{resultant}} = A + -A$$

$$A_{\text{res}} = 0 \text{ m}$$

b)



- At free boundary, reflected wave is in phase

$$\begin{aligned} A_{\text{resultant}} &= A + A \\ &= .15 \text{ m} + .15 \text{ m} \end{aligned}$$

$$A_{\text{resultant}} = .30 \text{ m}$$