

# Readings of Spring Scales

## Solution:

**The correct answer is c.)**

When the pulse arrives at the fixed end, it exerts an upward force on the end. And the fixed end exerts a downward reaction force on rods. This also can be explained by using the principle of superposition. (*Hint: imagine an another downward pulse on an imaginary spine connected to the original spine such that two pulses meet with the common end fixed.*)

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$$\begin{cases} N_1 \cos \alpha = N_2 \cos \beta \\ N_1 \sin \alpha + N_2 \sin \beta = G \end{cases}$$

$$\alpha = 30^\circ, \beta = 55^\circ, G = 2 \times 9.8 \text{ (N)}$$

$$\begin{cases} N_1 \doteq 11.3 \text{ (N)} \\ N_2 \doteq 17.2 \text{ (N)} \end{cases}$$

