

# Readings of Spring Scales

## Solution:

**The correct answer is b.)**

We give an example on how it can be done using a coordinate system with horizontal and vertical axes (see picture below). A general precaution is that when components are obtained, the original force should not be considered any more in following calculation.

# Readings of Spring Scales

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

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

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

