

2. CE Board Nov. 2019

A simply supported girder of a bridge spans 25 m. The standard truck load (H load) consists of 2 moving loads, 4.3 m apart. The loads are as follows:

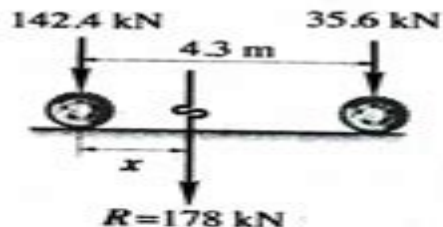
$$P_1 = 142.4 \text{ kN} \quad P_2 = 35.6 \text{ kN}$$



- ① Calculate the maximum support reaction.
- ② Calculate the maximum moment in the girder.
- ③ Calculate the maximum shear at mid-span.

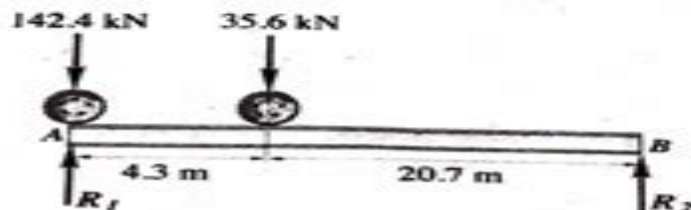
Solution:

- ① Maximum support reaction.
Placed the biggest load at point B where max. reaction occurs.



$$\begin{aligned} \sum M_A &= 0 \\ 25R_1 &= 142.4(25) + 35.6(20.7) \\ R_1 &= 171.9 \text{ kN} \end{aligned}$$

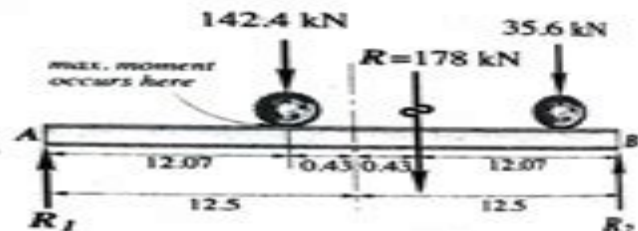
- ② Maximum moment in the girder.



$$\begin{aligned} \sum M_O &= 0 \\ 35.6(4.3) + 142.4(0) &= 178x \\ x &= 0.86 \text{ m.} \end{aligned}$$

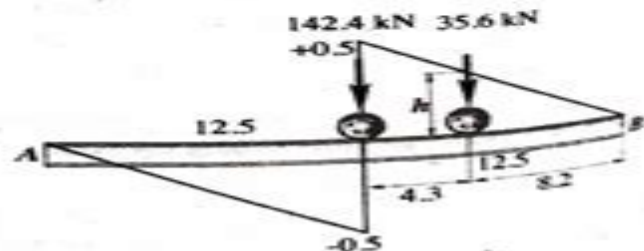
To obtain max. moment, place the load such a way that the center of the span will coincide with the center of the biggest load and the resultant load as shown in the figure.

$$\begin{aligned} \sum M_B &= 0 \\ 25 R_1 &= 178(12.07) \\ R_1 &= 85.94 \text{ kN} \end{aligned}$$



$$\begin{aligned} \text{Max. moment:} \\ M_{\max} &= R_1 (12.07) \\ M_{\max} &= 85.94(12.07) \\ M_{\max} &= 1037.3 \text{ kN.m} \end{aligned}$$

- ③ Maximum shear at mid-span.
To obtain max. shear at the mid-span use influence line.



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Norman R. Voigt



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