

③ Maximum shear at mid-span

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



$$\frac{h}{8.2} = \frac{-0.5}{12.5}$$

$$h = -0.328$$

Max. shear at mid-span:

$$V_{\max} = 71.2(0.5) + 17.8(0.328)$$

$$V_{\max} = 41.44 \text{ kN}$$

2. CE Board May 2022

Beam ABCDE is to be analyzed for maximum forces at ultimate conditions. The beam is simply supported at A, B, C, D and E.

Factored loads:

Dead load = 15 kN/m

Live load = 19 kN/m

- ① Determine the max. shear at B.
- ② Determine the max. reaction at B.
- ③ Determine the max. positive moment at span AB.

May 2012 Civil Engineering Board Exam

Huangqi Zhang



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