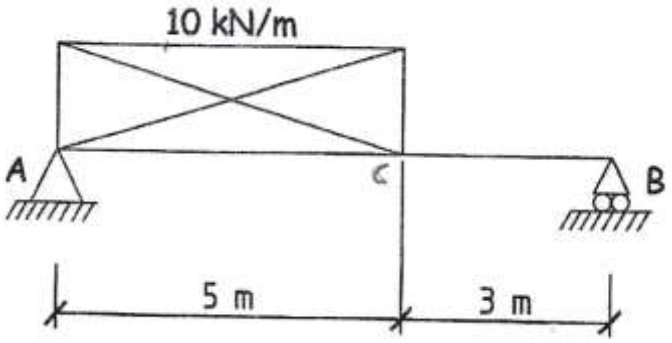
OEFENING 2:



Reactiekrachten

Ra + Rb – (10 kN/m . 5 m) = 0

Ra + Rb = 50 kN

Moment om A → Ra . 0 m + (10 kN/m . 5 m) . 2,5 m – Rb . 8m = 0

Rb = 15,625 kN

Ra = 34,375 kN

Dwarskrachten

Gebied AC: D = Ra – (10 kN/m . x m)

- → X = 0 m → D = 34,375 kN
- → X = 2,5 m → D = 9,375 kN
- → X = 5 m → D = - 15,625 kN

Gebied CB: D = Ra – (10 kN/m . 5m) = -15,625 kN

Momenten

Gebied AC: Mb = (Ra . x) – (10 kN/m . x). (x /2) aangepast

- → X = 0 m → Mb = 0 kN
- → X = 2,5 m → Mb = (34,375 . 2,5) – (10 . 2,5 . 1.25) = 54,6875 kN
- → X = 5 m → Mb = (34,375 . 5) – (10 . 5 . 2.5) = 49,875 kN

Gebied CB: Mb = ???

- → X = 5m → Mb =
- → X = 8m → Mb =