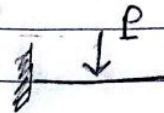
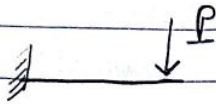
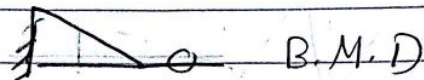
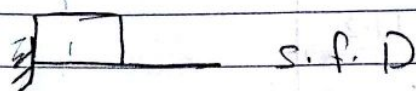
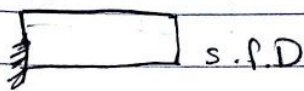


Moving Load

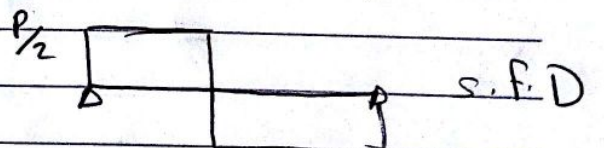
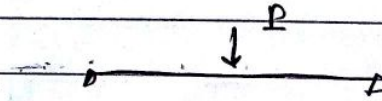
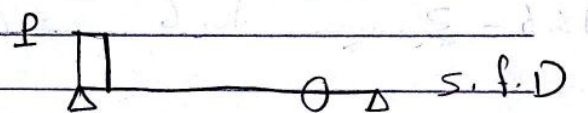
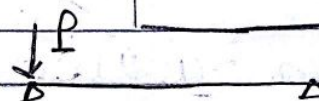
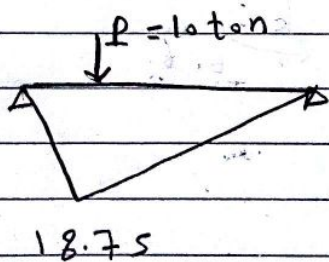
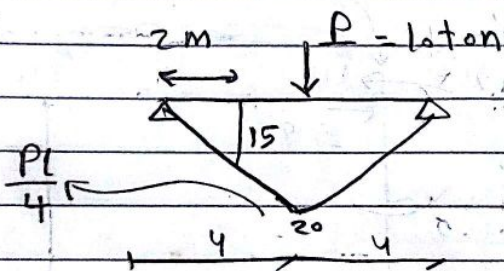
Determinate beams



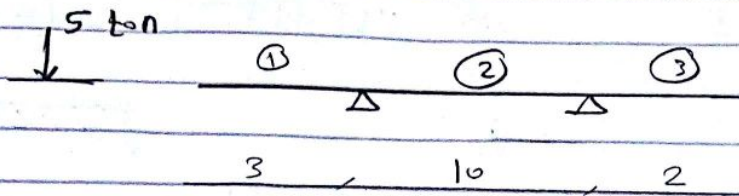
cantilever ①



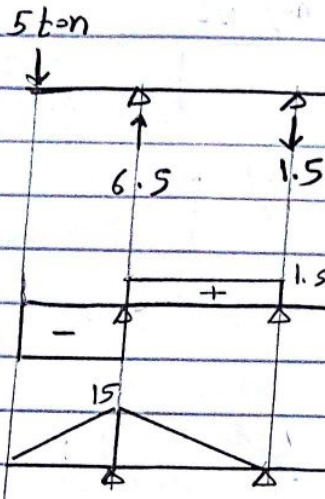
simple ②



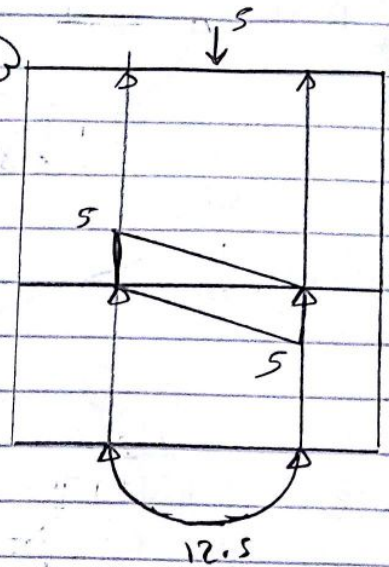
Example



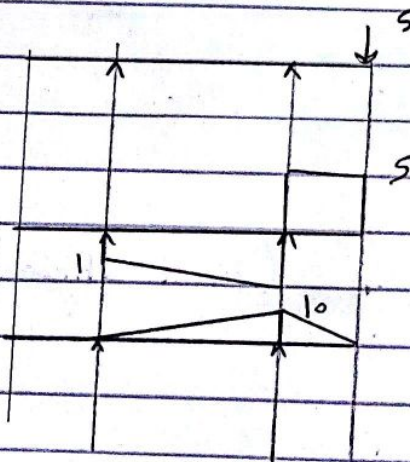
Case 1



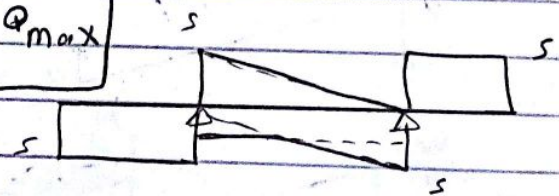
Case 2



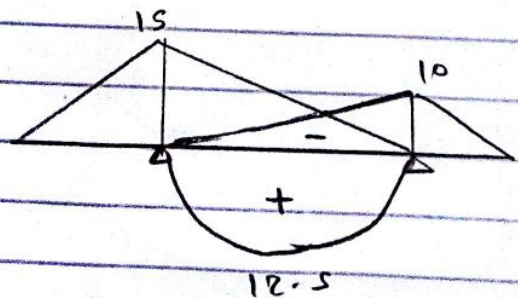
Case 3




Q_{max}

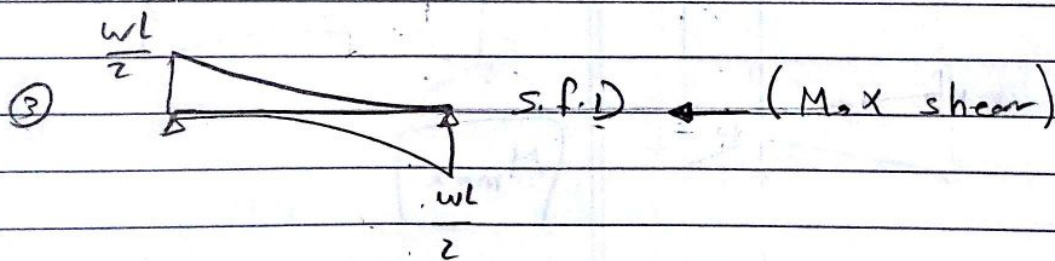
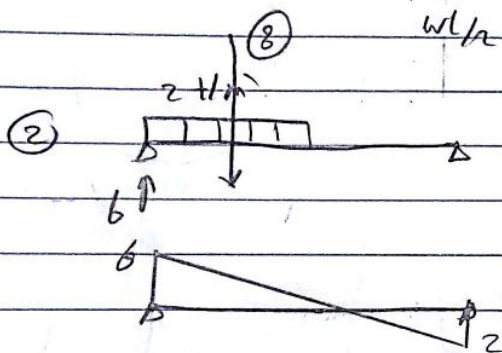
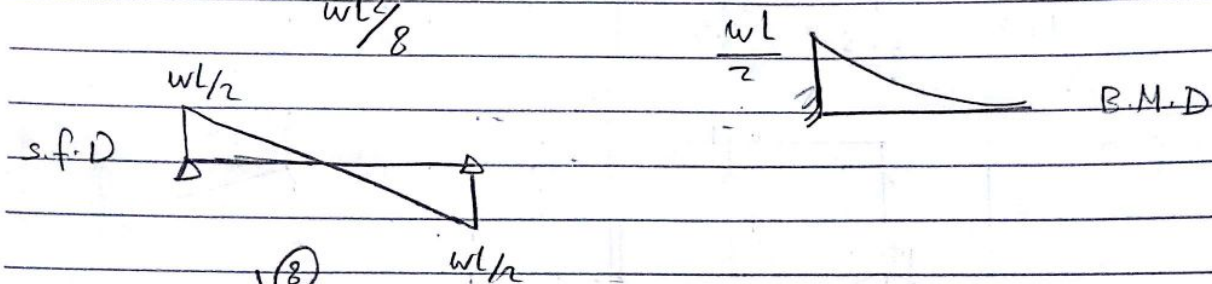
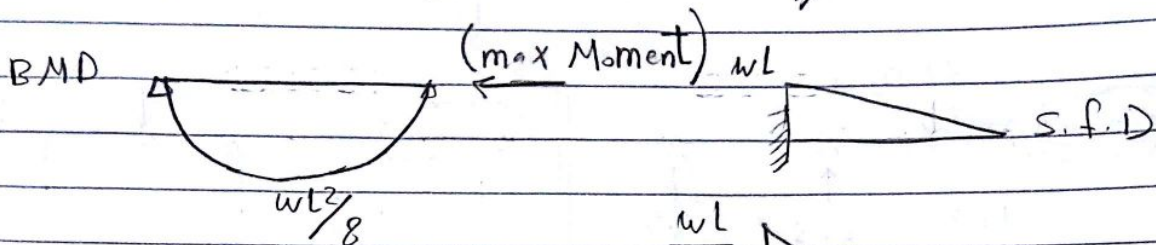


M_{max}



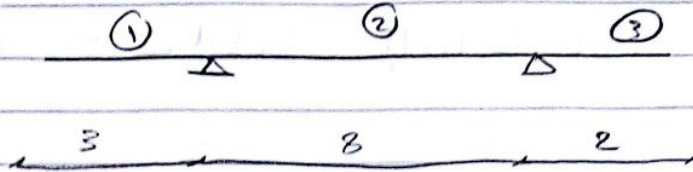
(الوزن الذاتي) 

Case ① 

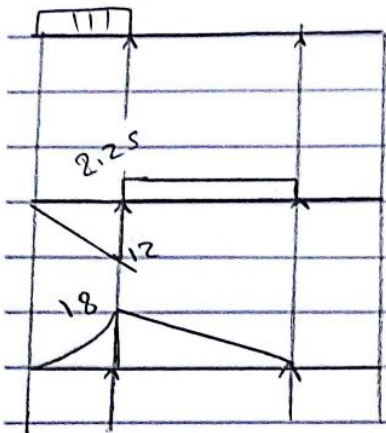


Example

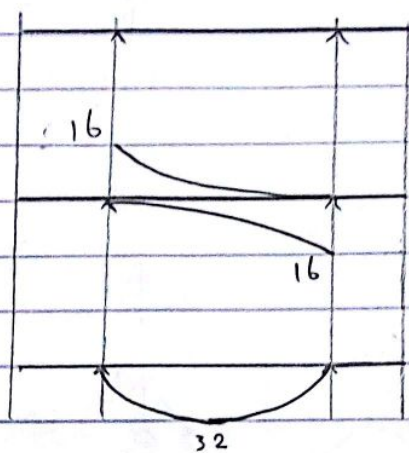
4 t/m



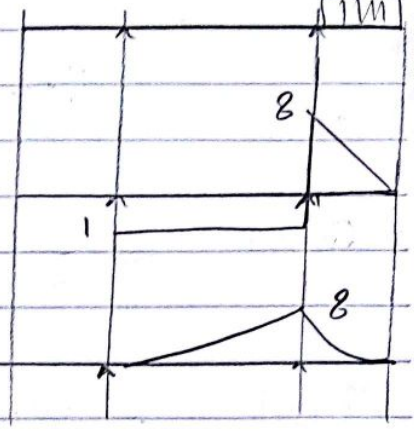
Case ①



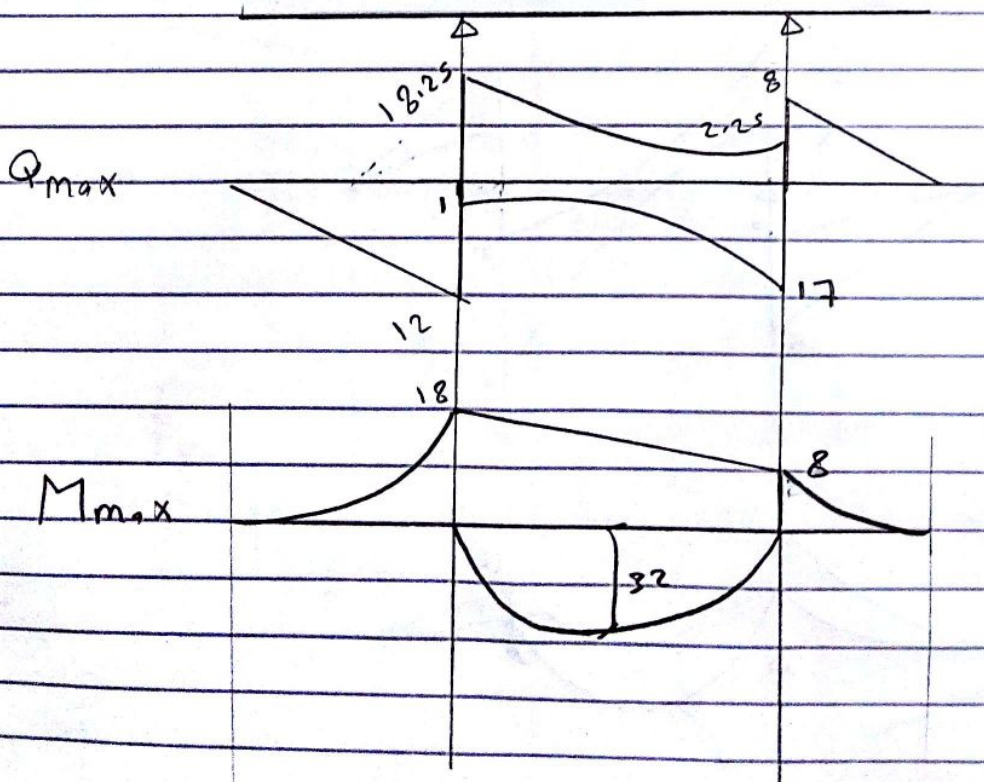
Case ②



Case ③

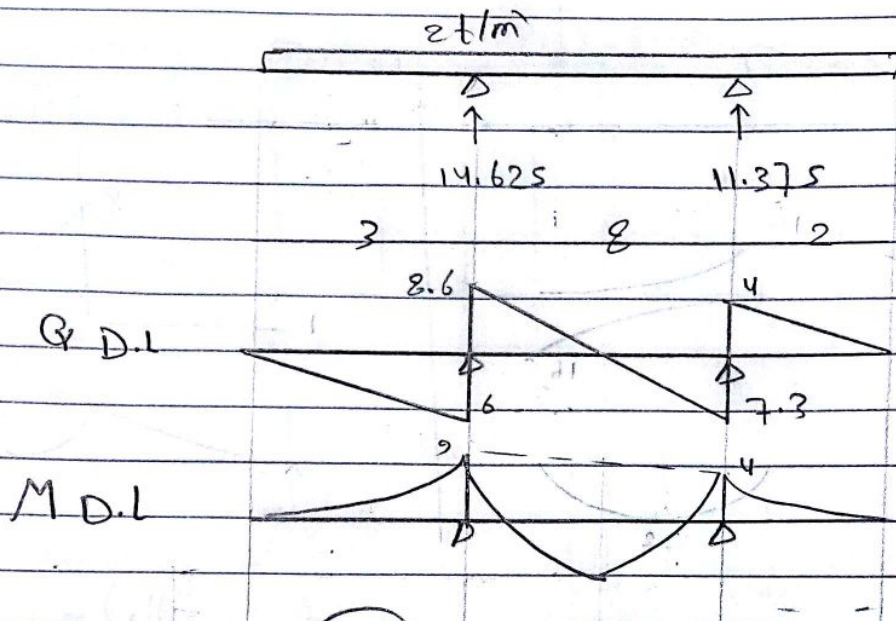


(بالتجميع)

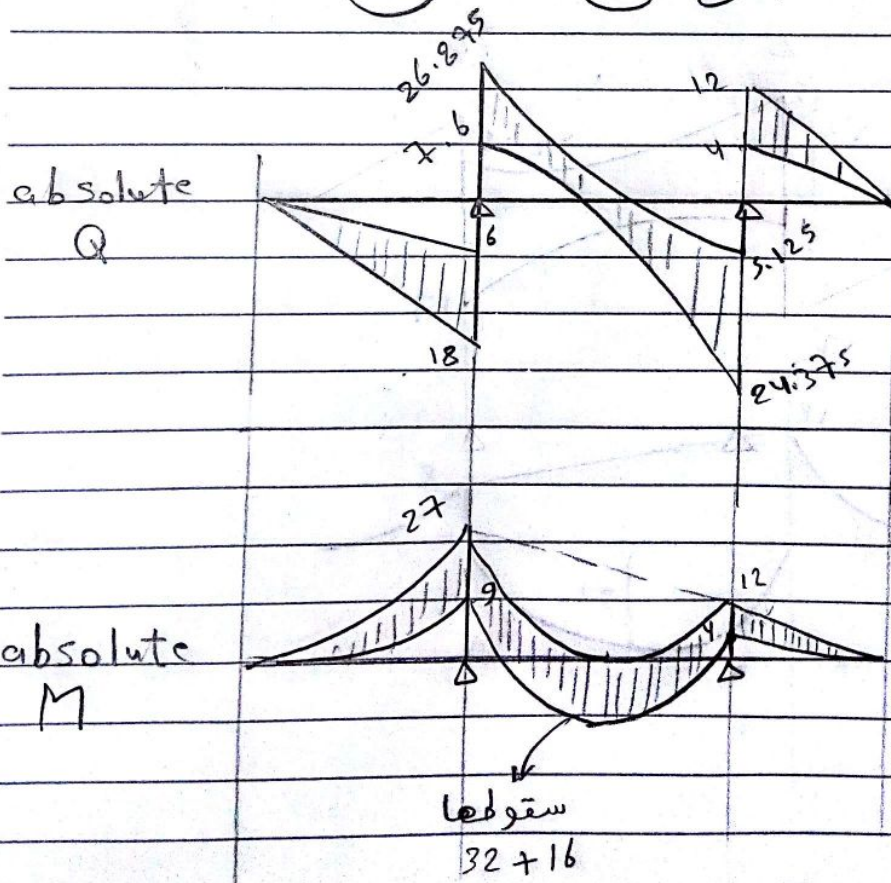


سجلات الحمولات التي كانت للحمل الي (Life load)

حالة ال D.L



رسم absolute ← جمع ال D.L مع ال l.l



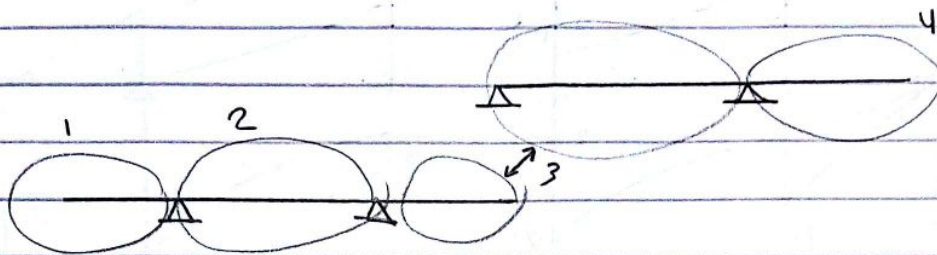
Example

$$L.L = 4 \text{ k/m}$$

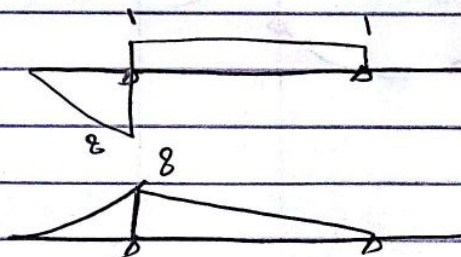
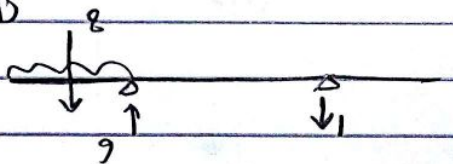
1111



2, 8, 2, 6, 2



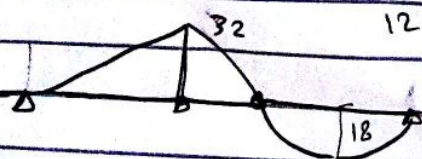
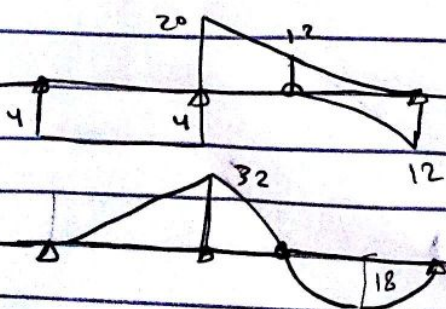
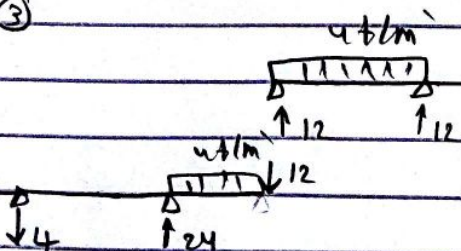
Case ①



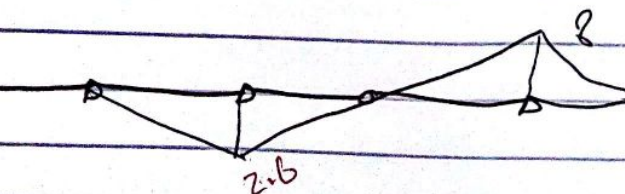
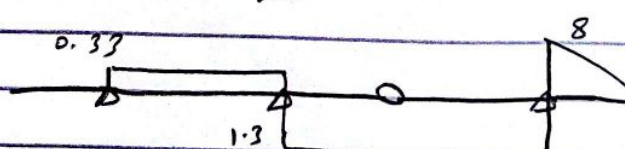
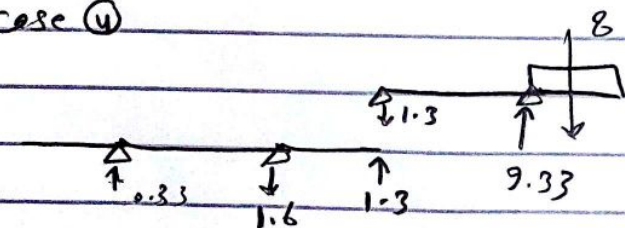
Case ②



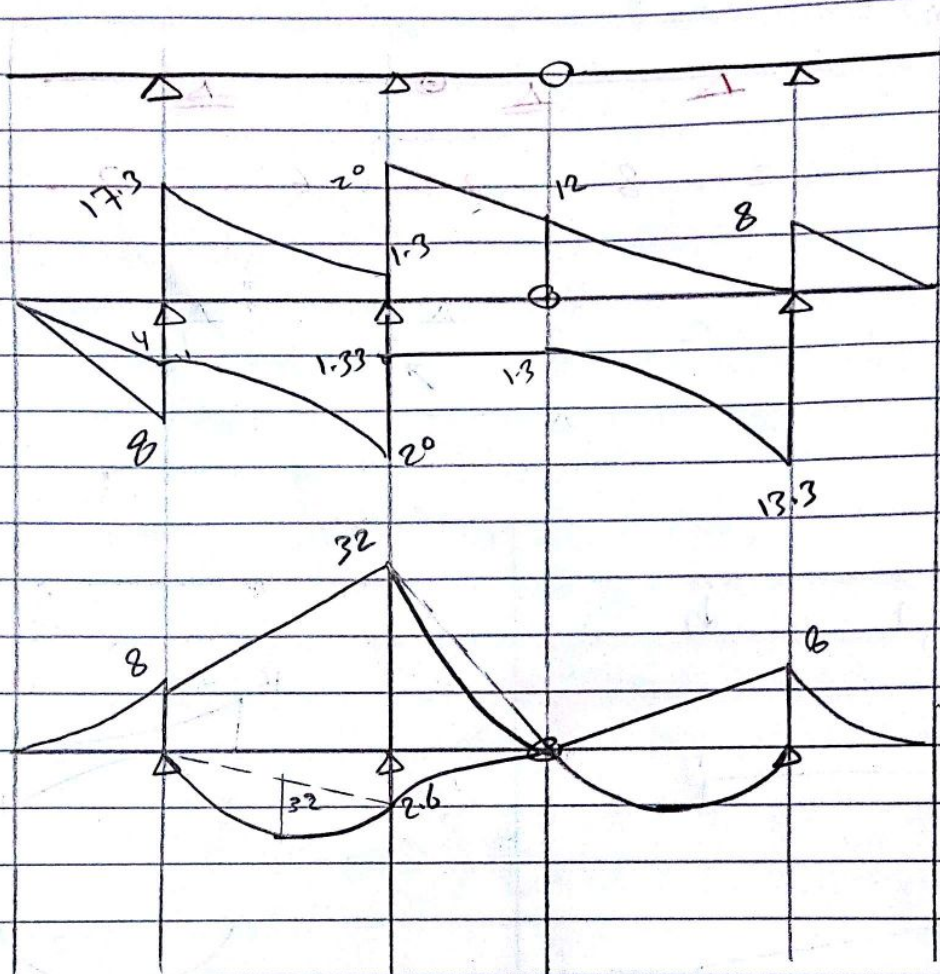
Case ③



Case ④



Q
max



M
max