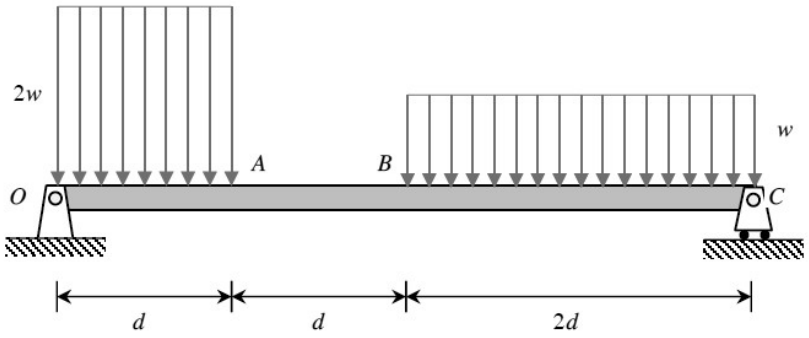
***Homework H12.A***

***Given***: The beam is loaded with the distributed load as shown.

***Find***: Calculate the magnitude and location of the single-force equivalent load.

Use the following parameter values for your work: $d = 2$ ft and $w = 100$ lb/ft.



***Homework H12.B***

***Given***: The beam is loaded with the distributed load as shown.

***Find***: Calculate the magnitude and location of the single-force equivalent load.

Use the following parameter values for your work: $b$ = 3 ft, $d$ = 4 ft, $w_1$ = 50 lb/ft and $w_2$ = 90 lb/ft.