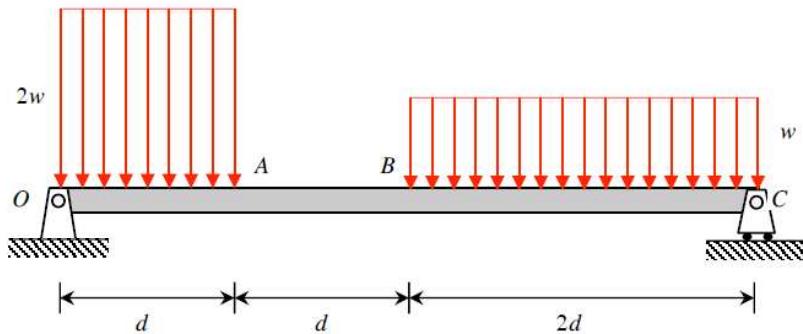


### Homework H12.A

**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:  $d = 2 \text{ ft}$  and  $w = 100 \text{ lb/ft}$ .



### 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.

