

Distributed Loading

- Represented by pressure function *p*.
- If load varies only in x direction, use intensity function w(x) = b p(x).

dF = w(x) dx

• Replace distributed load by F_R at x_R .





Example 1. Determine the single force F_R and its *x* location equivalent to the distributed loading shown below.



CONCEPT QUIZ







 $\triangleleft \triangleright$

D) 1.67 m E) 2 m

