88
kN·m 20 kN   **4 kN**   **8 kN/m**
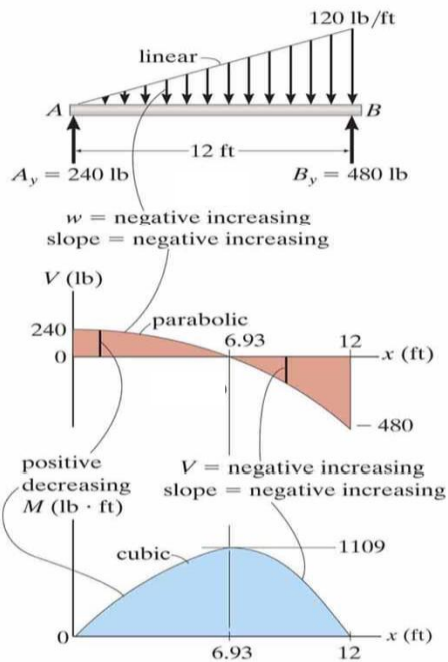
Example 1: Relations
Between w, V, M

A   B   C   D

2 m   2 m   2 m
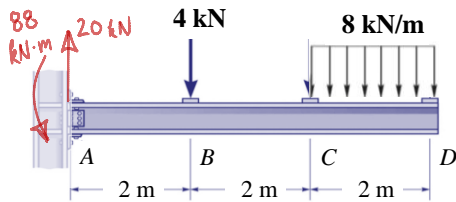
V (kN)
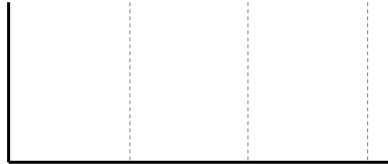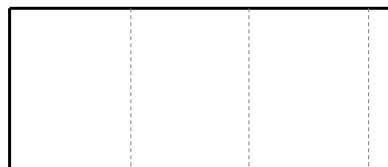
M (kN-m)

Example 2: Relations
between w, V, M

120 lb/ft
linear

A   B

12 ft

A_y = 240 lb B_y = 480 lb

w = negative increasing
slope = negative increasing

V (lb)

240   parabolic
0   6.93   12
                          x (ft)

− 480

positive   V = negative increasing
decreasing   slope = negative increasing
M (lb · ft)

cubic   1109

0
      6.93   12   x (ft)

Effect of a Couple

6 kN

20 kN-m

B
kN·m

6kN

A   B   C   D

2 m   2 m   2 m
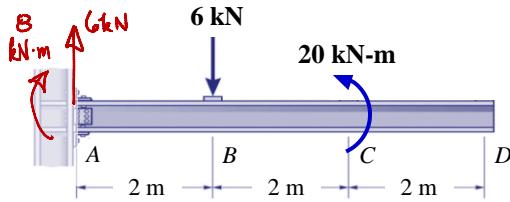
V (kN)
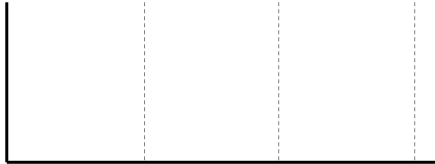
M (kN-m)

Example 3: Determine the Loading

A

B

2 m   2 m

V (kN)

2

4

x (m)

−2

−5