

There are **three** types of beams: simply supported, overhanging and the cantilevered.

1. **Simply supported beam**: The beam is supported at two points, usually one pin support and one roller support. The beam is free to rotate at the supports.

$\sum F_x = 0 \Rightarrow R_1 = 0$ $\sum F_y = 0 \Rightarrow R_1 + R_2 = W$ $\sum M = 0 \Rightarrow R_2 L = W L/2$
 $\Rightarrow R_1 = 0$ $\Rightarrow R_2 = W/2$ $\Rightarrow R_1 = 0$ $\Rightarrow R_2 = W/2$

Reaction at support: the reaction is **perpendicular to the beam**.

2. **Overhanging beam**: The beam is supported at two points, one pin support and one roller support. The beam extends beyond the supports on one or both sides.

Reaction at support: the reaction is **perpendicular to the beam**.

3. **Cantilevered beam**: The beam is supported at one point, one pin support. The beam extends beyond the support on one side.

- (i) fixed end: reaction force and moment
- (ii) free end: reaction force and moment
- (iii) reaction force and moment

Reaction at support: the reaction is **perpendicular to the beam**.

4. **Beam with a distributed load**: The beam is supported at two points, one pin support and one roller support. The beam is subjected to a distributed load along its length.

type 1: $w = w_0 \sin(\frac{\pi x}{L})$
 linearly distributed load



5. **Beam with a point load**: The beam is supported at two points, one pin support and one roller support. The beam is subjected to a point load at a specific location along its length.

- (i) reaction force and moment
- (ii) reaction force and moment
- (iii) reaction force and moment

Reaction at support: the reaction is **perpendicular to the beam**.

6. **Beam with a uniformly distributed load**: The beam is supported at two points, one pin support and one roller support. The beam is subjected to a uniformly distributed load along its length.

$\sum F_x = 0 \Rightarrow R_1 = 0$ $\sum F_y = 0 \Rightarrow R_1 + R_2 = W$ $\sum M = 0 \Rightarrow R_2 L = W L/2$
 $\Rightarrow R_1 = 0$ $\Rightarrow R_2 = W/2$ $\Rightarrow R_1 = 0$ $\Rightarrow R_2 = W/2$

7. **Beam with a triangular load**: The beam is supported at two points, one pin support and one roller support. The beam is subjected to a triangular load along its length.

- (i) reaction force and moment
- (ii) reaction force and moment
- (iii) reaction force and moment

12 Ap Statistics Multiple Choice Answers

D Kirk



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