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Q :) If a point load acting at the mid span of a fixed) beam of uniform section produces fixed end moments of 60 kNm, then same load spread uniformly over the entire span will produce fixed end moments equal to

A : 20 kNm

B : 30 kNm

C : 40 kNm

D : 45 kNm

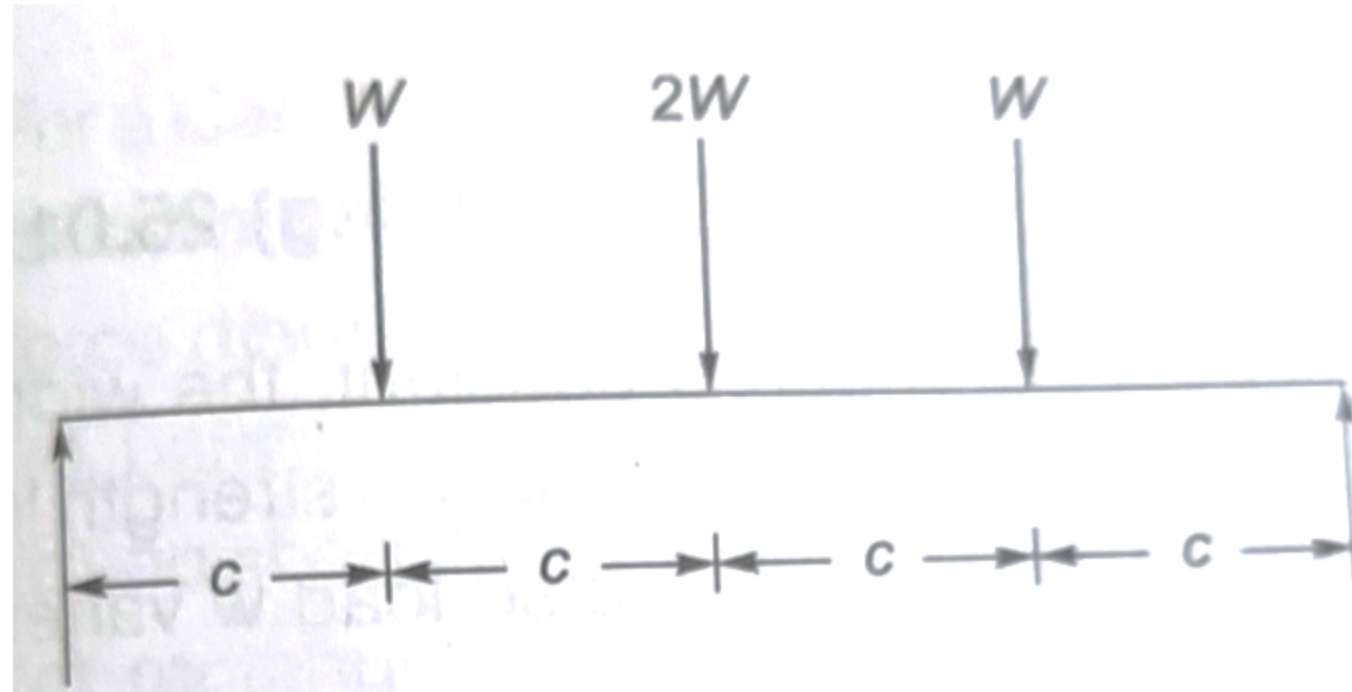
Q :) A simply supported beam is loaded as shown in the figure below. The maximum shear force in the beam will be

A : 0

B : W

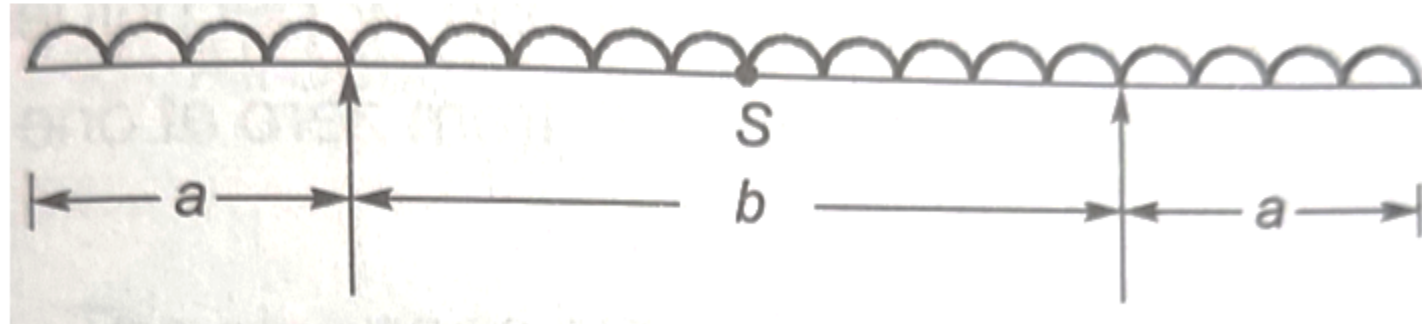
C : $2W$

D : $4W$



Q :) A horizontal beam carrying uniformly distributed load is supported with equal overhangs is shown in the figure below. The resultant bending moment S at the mid-span shall will be zero if (a/b) is

- A : 0.75**
- B : 0.66**
- C : 0.5**
- D : 0.33**



Q :) The slope of curve of S. F. D (Shear Force Diagram) at any section will be equal to

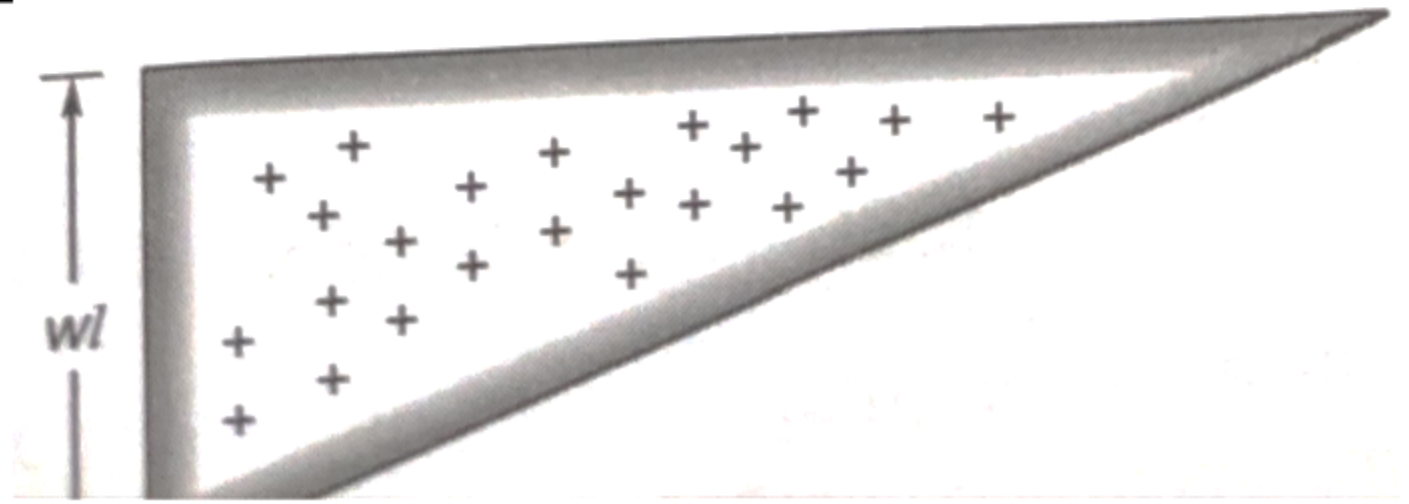
A : the slope of loading at the section

B : the ordinate of loading diagram at the to sect;

C : the area of loading diagram from the end to that section

D : None of these

Q :) The Shear Force diagram of a loaded beam shown in the figure below is that of



Q :) Which of the following beam is likely to have point of contra flexure?

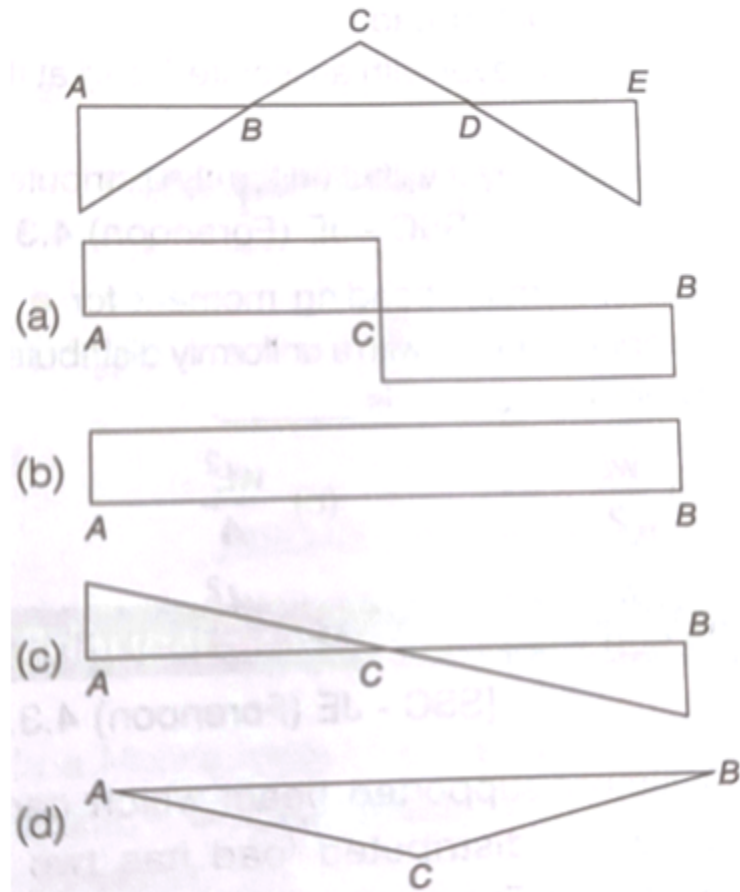
A : cantilever beam

B : simply supported beam

C : beam with overhangs

D : None of these

Q :) Bending moment distribution in a built beam is shown in the figure below. The shear force distribution in the beam is represented by



Q :) A fixed beam is subjected to a uniformly distributed load over its entire span. The points of contra flexure will occur on either side of the centre at a distance of _____ from the centre,

A : $L/\sqrt{3}$

B : $L/3$

C : $L/(2\sqrt{3})$

D : $L/(4\sqrt{3})$

Q :) A simply supported beam carries a varying load from zero at one end and w at the other end. If the length of the beam is a , the shear force will be zero at a distance x from least loaded point where x is

A : $a/2$

B : $a/3$

C : $a/\sqrt{3}$

D : $(a\sqrt{3})/2$

Q :) The general expression for the B.M. of a beam of length l is $M = (wl/2)x - (wx^2/2)$ the beam carries

A : a uniformly distributed load 'IN' per unit length

B : a load varying linearly from zero at one end to w at the other end

C : an isolated load at mid span

D : None of these

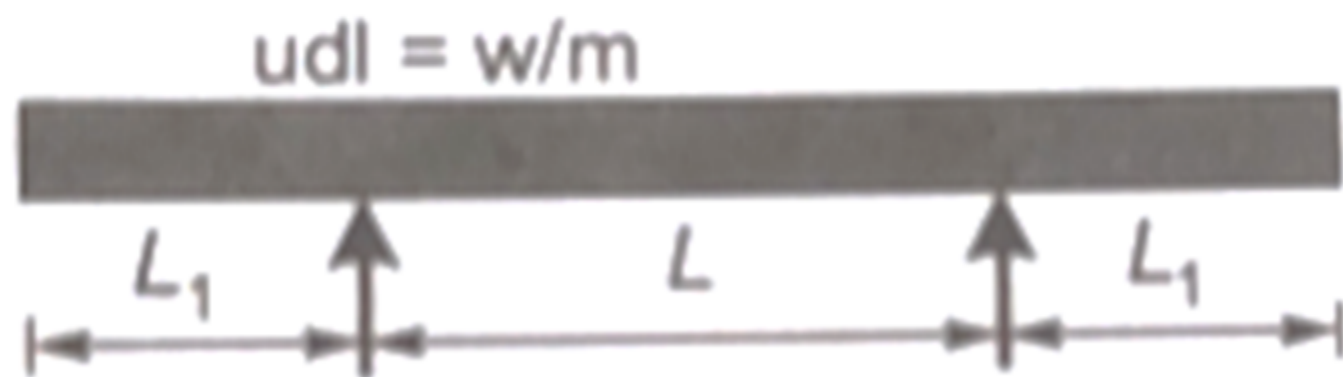
Q :) For the beam having a uniformly distributed load of w per unit length as shown in the given figure, the maximum positive bending moment is equal to the maximum negative bending moment. The value of L_1 to L for this condition is:

A : $1/\sqrt{2}$

B : $\sqrt{2}$

C : $\frac{1}{2}$

D : $\frac{1}{2}\sqrt{2}$



Q :) By applying the static equations i.e. $\sum H = 0$, $\sum V = 0$ and $\sum M = 0$, to a determinate structure, we may determine

A : Supporting reactions only

B : Shear forces only

C : Bending moments only

D : All option are correct



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