Choose a support which you would like -
 1) Cantilever
 2) simply supported
 3) Overhanging


Enter here - 3
Enter length of beam - 11
Enter positions of First and second roller/pin support from measured from left side - 14 5
Please enter within beam's length. Try again.

Enter positions of First and second roller/pin support from measured from left side - 9 3
Enter no. of point forces - 2
Enter no. of Distributed forces - 1
Enter no. of Undistributed load - 1
Enter no. of Moments - 1


 ***** Note: Input forces should not overlap with other forces (mainly UDL and UVL)!!!!! *****
 ***** Note: Enter values with space between them without units *****
 ***** Note: You can move the curser over the graph to view exact co=ordinates of a point shown at bottom right *****


Enter magnitude of point force and distance from origin - 20 4
Enter magnitude of point force and distance from origin - -15 11
Enter Distributed load per meter, its start and end point from origin - 10 2 0
Error - Start point should be less than end point

Enter Distributed load per meter, its start and end point from origin - 10 0 2
for Undistributed load, Enter start and end point, then enter load at start and end - 5 8 -10 -20
Enter magnitude of moment and distance from origin - 30 10

**Select C:\WINDOWS\py.exe**

```
Choose a support which you wou
1) Cantilever
2) simply supported
3) Overhanging


Enter here - 3
Enter length of beam - 11
Enter positions of First and s
Please enter within beam's len

Enter positions of First and s
Enter no. of point forces - 2
Enter no. of Distributed force
Enter no. of Undistributed loa
Enter no. of Moments - 1


***** Note: Input forces shou
***** Note: Enter values with
***** Note: You can move the


Enter magnitude of point force
Enter magnitude of point force
Enter Distributed load per met
Error - Start point should be

Enter Distributed load per met
for Undistributed load, Enter
Enter magnitude of moment and
```
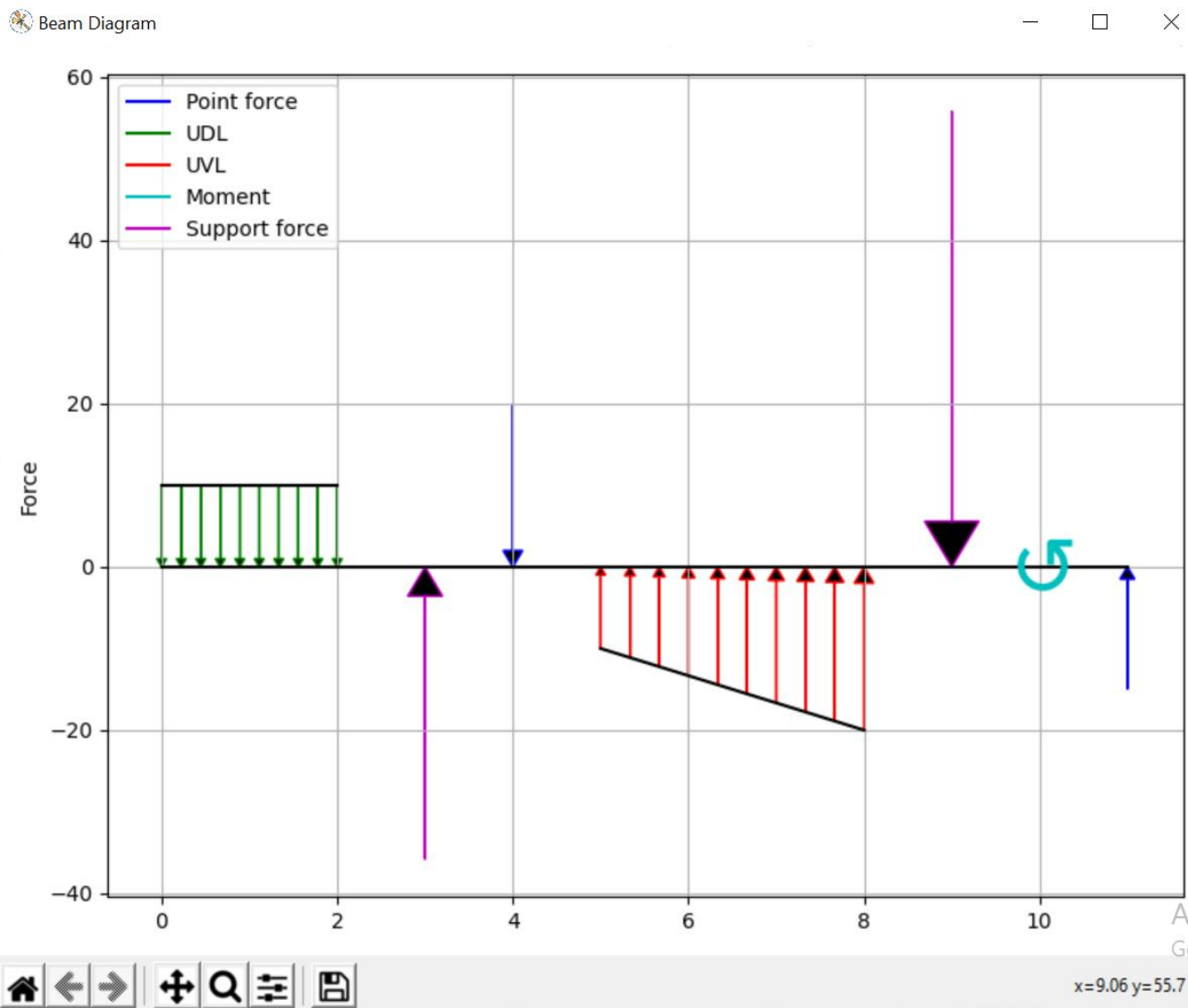
**Beam Diagram**



Legend:
- Point force (blue)
- UDL (green)
- UVL (red)
- Moment (cyan)
- Support force (magenta)

Y-axis: Force

x=9.06 y=55.7

Type here to search

ENG
19:47
09-11-2020

Select C:\WINDOWS\py.exe

Choose a support which you wou
 1) Cantilever
 2) simply supported
 3) Overhanging

Enter here - 3
Enter length of beam - 11
Enter positions of First and s
Please enter within beam's len

Enter positions of First and s
Enter no. of point forces - 2
Enter no. of Distributed force
Enter no. of Undistributed loa
Enter no. of Moments - 1

 ***** Note: Input forces shou
 ***** Note: Enter values with
 ***** Note: You can move the

Enter magnitude of point force
Enter magnitude of point force
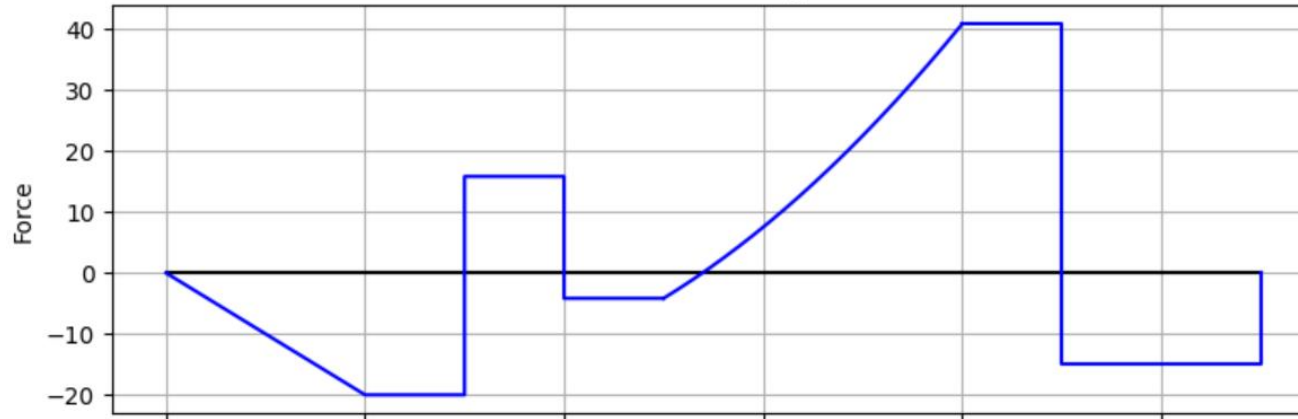Enter Distributed load per met
Error - Start point should be

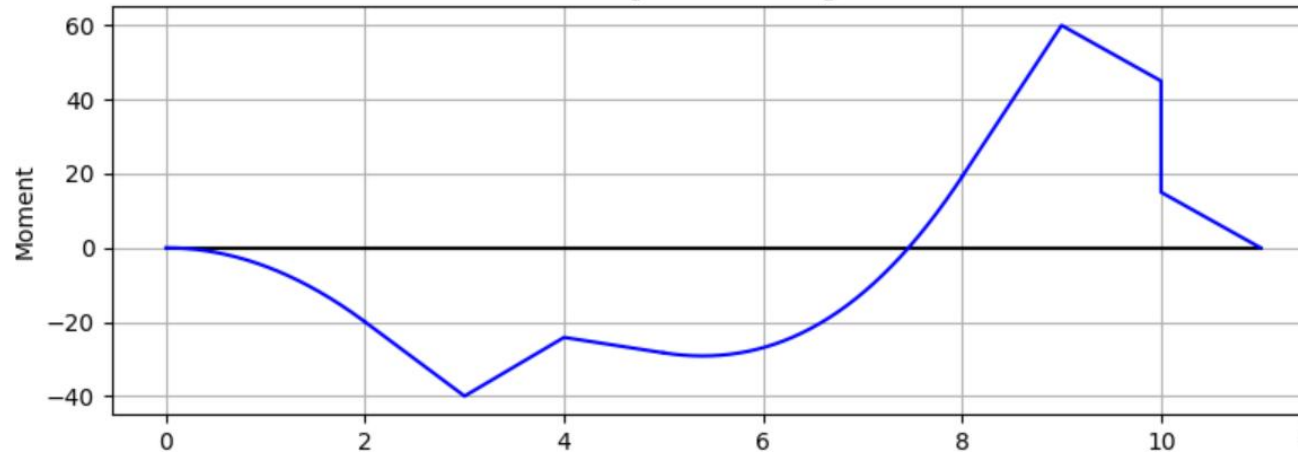Enter Distributed load per met
for Undistributed load, Enter
Enter magnitude of moment and

## SFBM Diagram

### Shear Force Diagram

### Bending Moment diagram

x=8.44 y=36.9

Type here to search

ENG
19:47
09-11-2020

**C:\WINDOWS\py.exe**

```
2) simply supported
3) Overhanging


Enter here - 3
Enter length of beam - 11
Enter positions of First and second roller/pin support from measur
Please enter within beam's length. Try again.

Enter positions of First and second roller/pin support from measur
Enter no. of point forces - 2
Enter no. of Distributed forces - 1
Enter no. of Undistributed load - 1
Enter no. of Moments - 1


 ***** Note: Input forces should not overlap with other forces (ma
 ***** Note: Enter values with space between them without units **
 ***** Note: You can move the curser over the graph to view exact


Enter magnitude of point force and distance from origin - 20 4
Enter magnitude of point force and distance from origin - -15 11
Enter Distributed load per meter, its start and end point from ori
Error - Start point should be less than end point

Enter Distributed load per meter, its start and end point from ori
for Undistributed load, Enter start and end point, then enter load
Enter magnitude of moment and distance from origin - 30 10
Do you want to find SFBM at a specific point ? (Y/N) - y
Enter a target value that you want to find SF and BM at - 5.56
your Shear force points are ( 5.56 1.956 )
your Bending moment points are ( 5.56 -29.001 )
```
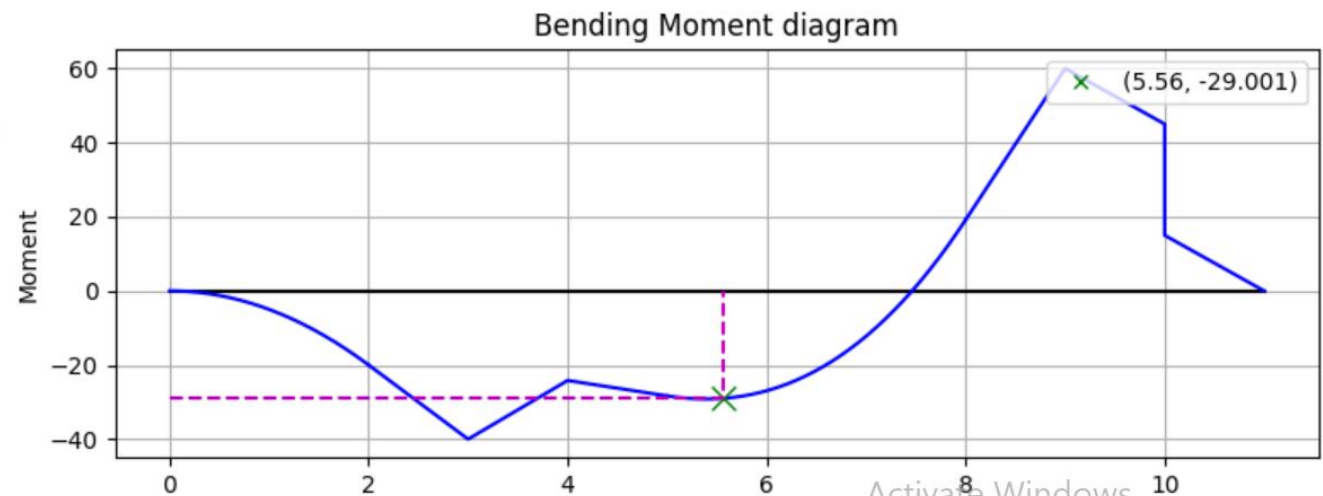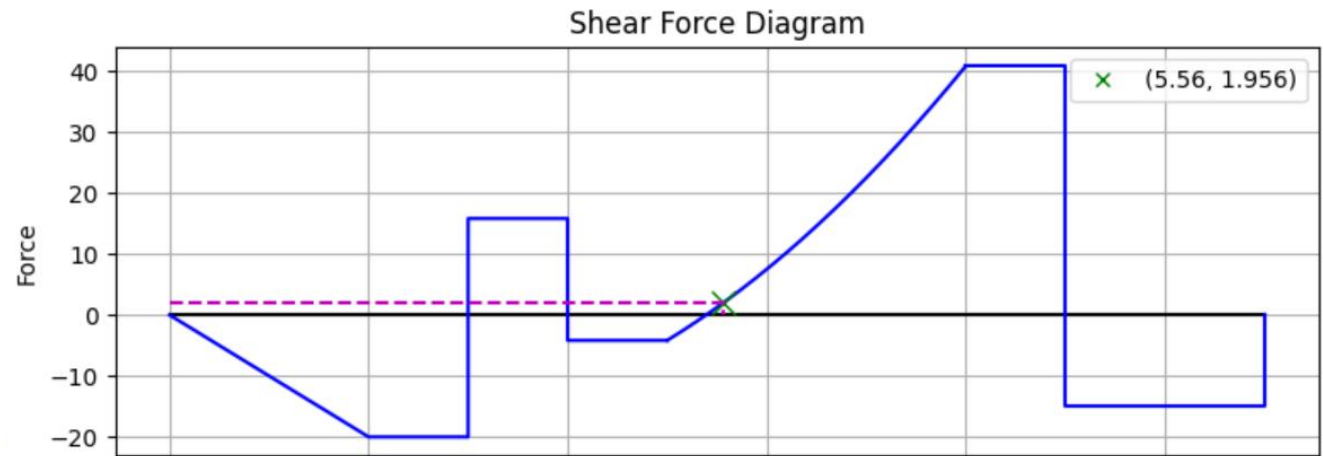
**SFBM Diagram**

### Shear Force Diagram

× (5.56, 1.956)

### Bending Moment diagram

× (5.56, -29.001)

Activate Windows
Go to Settings to activate Windows.

Enter no. of Undistributed load - 1
Enter no. of Moments - 1

***** Note: Input forces should not overlap with other forces
***** Note: Enter values with space between them without unit
***** Note: You can move the curser over the graph to view ex

Enter magnitude of point force and distance from origin - 20 4
Enter magnitude of point force and distance from origin - -15
Enter Distributed load per meter, its start and end point from
Error - Start point should be less than end point

Enter Distributed load per meter, its start and end point from
for Undistributed load, Enter start and end point, then enter
Enter magnitude of moment and distance from origin - 30 10
Do you want to find SFBM at a specific point ? (Y/N) - y
Enter a target value that you want to find SF and BM at - 5.56
your Shear force points are ( 5.56 1.956 )
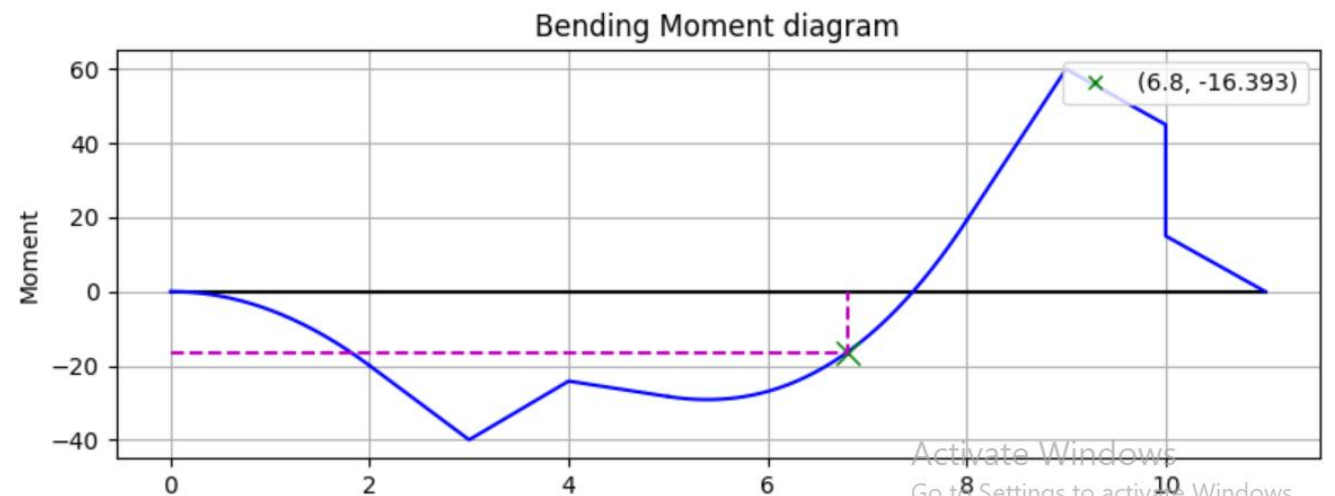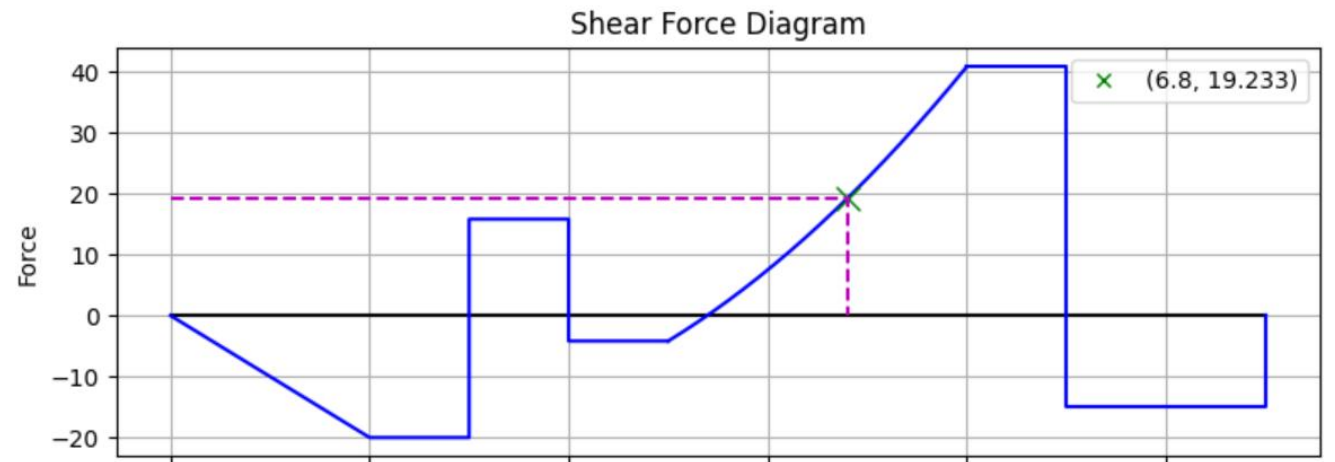your Bending moment points are ( 5.56 -29.001 )

Do you want to find SFBM at a specific point ? (Y/N) - y
Enter a target value that you want to find SF and BM at - 6.8
your Shear force points are ( 6.8 19.233 )
your Bending moment points are ( 6.8 -16.393 )

SFBM Diagram

### Shear Force Diagram

× (6.8, 19.233)

### Bending Moment diagram

× (6.8, -16.393)

x=9.10 y=47.8

Type here to search

19:54
09-11-2020

```
Choose a support which you would like -
1) Cantilever
2) simply supported
3) Overhanging


Enter here - 2
Enter length of beam - 10
Enter no. of point forces - 2
Enter no. of Distributed forces - 0
Enter no. of Undistributed load - 2
Enter no. of Moments - 1


 ***** Note: Input forces should not overlap with other forces (mainly UDL and UVL)!!!!! *****
 ***** Note: Enter values with space between them without units *****
 ***** Note: You can move the curser over the graph to view exact co=ordinates of a point shown at bottom right *****


Enter magnitude of point force and distance from origin - 20 1
Enter magnitude of point force and distance from origin - -15 9
for Undistributed load, Enter start and end point, then enter load at start and end - 2 5 -30 30
for Undistributed load, Enter start and end point, then enter load at start and end - 6 8 10 -20
Enter magnitude of moment and distance from origin - -25 5.5
```

# SFBM Diagram

## Shear Force Diagram

Force

## Bending Moment diagram

Moment

```
Choose a support which you would like -
 1) Cantilever
 2) simply supported
 3) Overhanging


Enter here - 2
Enter length of beam - 10
Enter no. of point forces - 2
Enter no. of Distributed forces - 0
Enter no. of Undistributed load - 2
Enter no. of Moments - 1


 ***** Note: Input forces should not overlap with other forces (mainly UDL and UVL)!!!!! *****
 ***** Note: Enter values with space between them without units *****
 ***** Note: You can move the curser over the graph to view exact co=ordinates of a point shown at bottom right *****


Enter magnitude of point force and distance from origin - 20 1
Enter magnitude of point force and distance from origin - -15 9
for Undistributed load, Enter start and end point, then enter load at start and end - 2 5 -30 30
for Undistributed load, Enter start and end point, then enter load at start and end - 6 8 10 -20
Enter magnitude of moment and distance from origin - -25 5.5
Do you want to find SFBM at a specific point ? (Y/N) - y
Enter a target value that you want to find SF and BM at - 2.4
your Shear force points are ( 2.4 -2.1 )
your Bending moment points are ( 2.4 -7.813 )
```

```
Choose a support which you would like -
 1) Cantilever
 2) simply supported
 3) Overhanging


Enter here - 2
Enter length of beam - 10
Enter no. of point forces - 2
Enter no. of Distributed forces - 0
Enter no. of Undistributed load - 2
Enter no. of Moments - 1


 ***** Note: Input forces should not overlap with other forces (mainly UDL and UVL)!!!!! *****
 ***** Note: Enter values with space between them without units *****
 ***** Note: You can move the curser over the graph to view exact co=ordinates of a point shown at bottom right *****


Enter magnitude of point force and distance from origin - 20 1
Enter magnitude of point force and distance from origin - -15 9
for Undistributed load, Enter start and end point, then enter load at start and end - 2 5 -30 30
for Undistributed load, Enter start and end point, then enter load at start and end - 6 8 10 -20
Enter magnitude of moment and distance from origin - -25 5.5
Do you want to find SFBM at a specific point ? (Y/N) - y
Enter a target value that you want to find SF and BM at - 2.4
your Shear force points are ( 2.4 -2.1 )
your Bending moment points are ( 2.4 -7.813 )


Do you want to find SFBM at a specific point ? (Y/N) - y
Enter a target value that you want to find SF and BM at - 6.7
your Shear force points are ( 6.7 -15.825 )
your Bending moment points are ( 6.7 4.658 )


Do you want to find SFBM at a specific point ? (Y/N) -
```
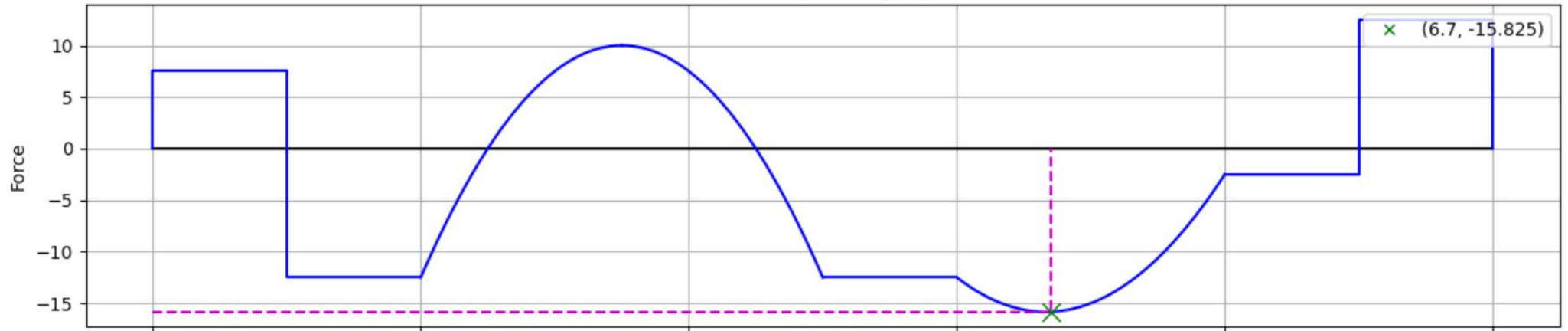
Choose a support which you would like -
1) Cantilever
2) simply supported
3) Overhanging


Enter here - 1
Enter length of beam - 8
Enter no. of point forces - 2
Enter no. of Distributed forces - 2
Enter no. of Undistributed load - 1
Enter no. of Moments - 0


 ***** Note: Input forces should not overlap with other forces (mainly UDL and UVL)!!!!! *****
 ***** Note: Enter values with space between them without units *****
 ***** Note: You can move the curser over the graph to view exact co=ordinates of a point shown at bottom right *****


Enter magnitude of point force and distance from origin - 20 8
Enter magnitude of point force and distance from origin - -35 3
Enter Distributed load per meter, its start and end point from origin - 15 0 2
Enter Distributed load per meter, its start and end point from origin - -25 5.5 7.5
for Undistributed load, Enter start and end point, then enter load at start and end - 3.5 5 -10 10