

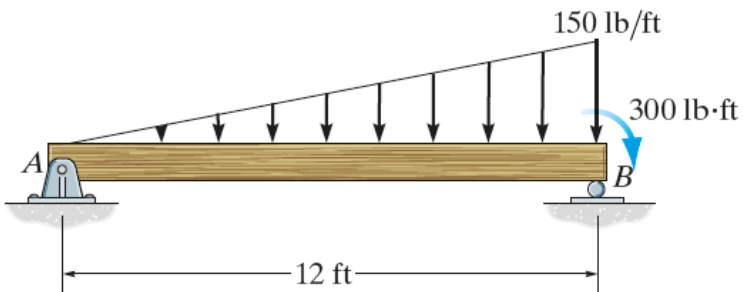
StarID or TechID (no names) \_\_\_\_\_

Do one of the two problems shown below (the second problem is on the back).

Show your work (you will not receive any credit if all you have is a final answer, right or wrong).

1. Determine the internal shear and moment in the beam as a function of  $x$  ( $x$  begins at the pinned support  $A$  and increases to the right).

Draw the shear and moment diagrams. Make sure you provide the applicable values on the diagrams (at the beginning/end and where any positive/negative transitions occur).



2. Determine the internal shear and moment in the beam as a function of  $x$  ( $x$  begins at the fixed support A and increases to the right). Draw the shear and moment diagrams. Make sure you provide the applicable values on the diagrams (at the beginning/end and where any positive/negative transitions occur).

