HW wk 09 | Due 04.02.2019 | moment diagrams and sizing beams

For each loading and shear diagram below, draw the moment diagram and indicate its maximum value. Hint: use the rules for diagramming and don't forget units.
A beam with a length of 10 feet, a width of 6 feet, and a height of 2 feet is shown. The beam has a uniformly distributed load of 1200 lbs/ft acting over its entire length. The shear force diagram for the beam shows a shearing force of 3.6k at the left end, decreasing linearly to 0 at the middle of the beam and then increasing linearly to -3.6k at the right end.

Another beam with the same dimensions and load is shown. The shear force diagram for this beam shows a shearing force of 7.2k at the left end, decreasing linearly to 0 at the middle of the beam.