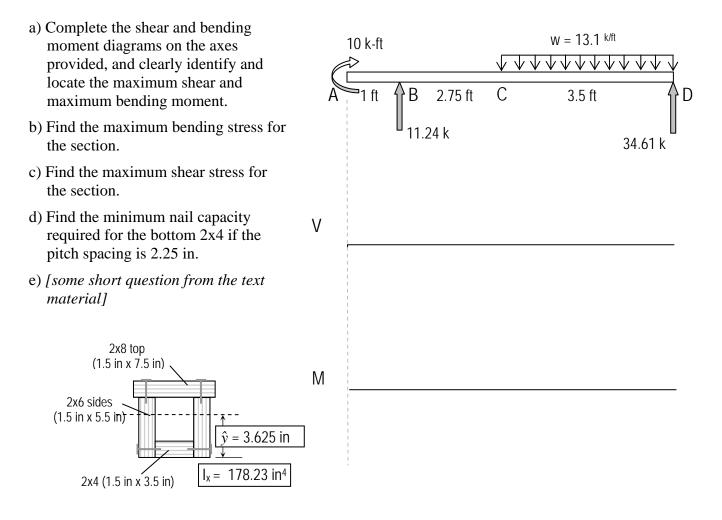
ENDS 231: Practice Quiz 4

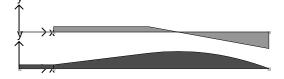
Clearly show your work and answer.

Given the beam with the following loading and support reactions and cross section geometry:



Answers:

a) plotted answers are in these shapes:



$V_{max} = -34.61$ k at D, $M_{max} = 45.7$ k-ft	
at 0.86 ft to right of C	
at 0.86 ft to right of C b) $f_b = 11.1$ ksi ($f_{b-top} = 10.8$ ksi) Answers have NOT c) $f_v = 2.25$ ksi Disclaimer: Discla	
c) $f_{\rm v} = 2.25$ ksi	Disclaimer thekingly researche
d) F = 3.3 k	= 10.8 ksi) Answers have Disclaimer: Answers have been painstakingly researched.