

NAME: _____

1) What are the 4 K's of rigging according to the *Stage Rigging Handbook*? (4 points)

2) Draw a free body diagram for a seesaw with a 12-foot long beam, a fulcrum in the center of the beam, and a 200# stagehand sitting on each end of the beam. (2 points)

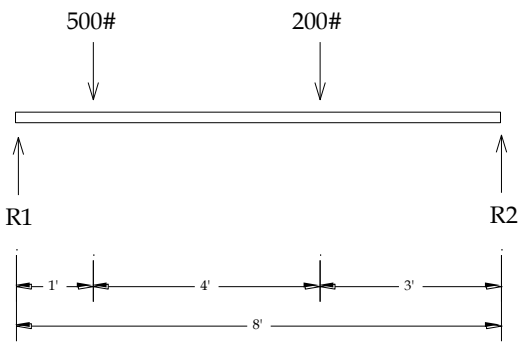
3) Draw a free body diagram of a 10-foot long beam supported at each end with a distributed load of 5 pounds per foot and a point load of 300# 3 feet from the left end. (2 points)

Remember to show ALL your work and to label your units!

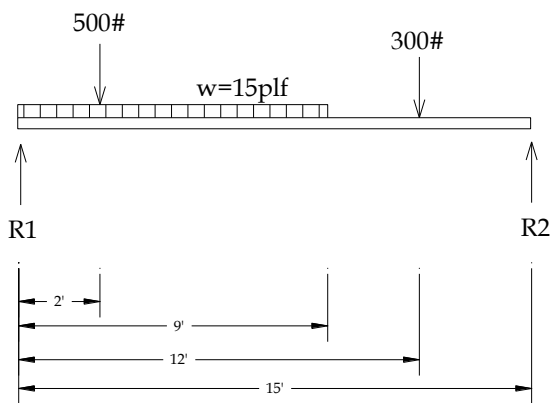
McCullough

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4) Find the reactions for this free body diagram: (4 points)



5) Find the reactions for this free body diagram: (4 points)



Remember to show ALL your work and to label your units!

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6) Measure the large rolling table in the scene shop. What is its height, length, and width? Write your answer in feet and inches. (3 points)

H:

L:

W:

7) Convert the measurements from question 6 into decimal feet (3 points)

H:

L:

W:

8) Convert the measurements from question 6 into decimal inches (3 points)

H:

L:

W:

9) Convert 31.625" to feet and inches (2 points)