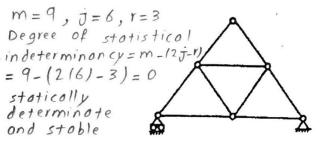
## Solutions to Homework 1

## Question 1: 10 points

Classify each of the structures as statically determinate, statically indeterminate, stable or unstable. For those cases that are indeterminate, specify the degree of indeterminacy.



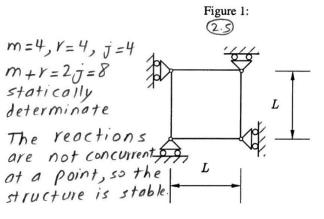
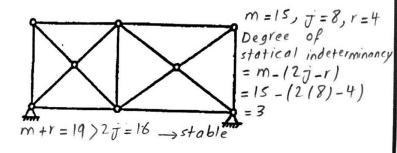


Figure 3:



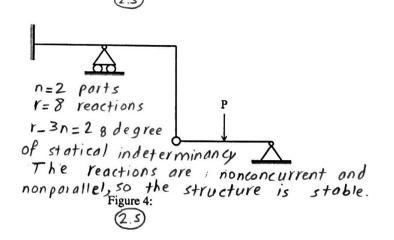
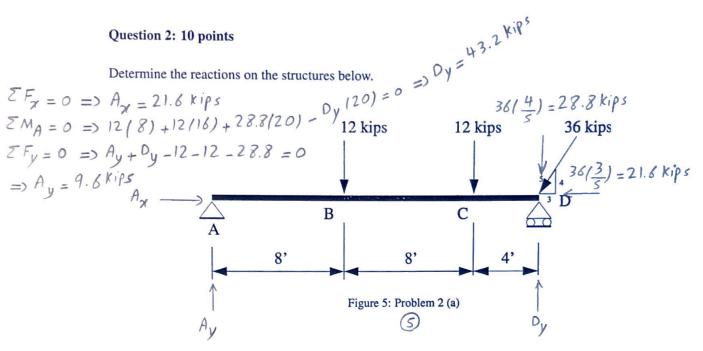
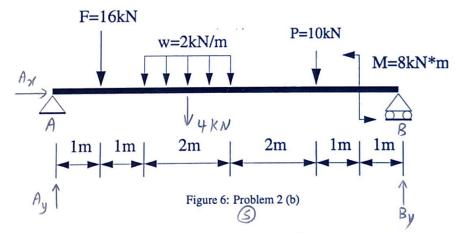


Figure 2:





$$\Sigma M_A = 0 \Rightarrow 1611) + 413) + 1016) - 8 - B_y / 8) = 0 \Rightarrow B_y = 10 \text{ KN}$$
 $\Sigma F_y = 0 \Rightarrow A_y - 16 - 4 - 10 + 10 = 0 \Rightarrow A_y = 20 \text{ KN}$ 
 $\Sigma F_{x} = 0 \Rightarrow A_x = 0$