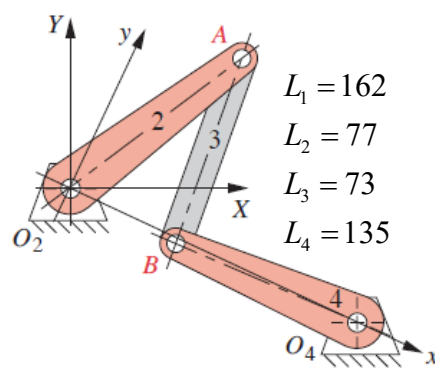


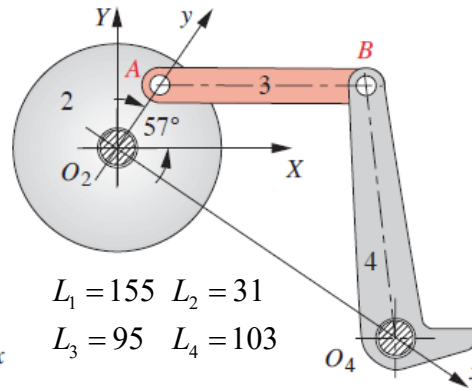
HOMEWORK #1

If you simply write down an answer, your grade on a problem is an all or nothing proposition. Always show your work if you want the possibility of partial credit. This homework is scored out of 50 points.

1. (12 pts. each) For each mechanism, find the mobility and determine the Grashof condition.



(a) Fourbar linkage



(b) Fourbar linkage

HOMEWORK #1

2. (26 pts. total) Your boss gives you the following partially-specified fourbar mechanism to finish and tells you only that it must be Grashof. She then leaves to go to a major industry trade show. When she calls you the next day to ask for the length of link d – what do you tell her? [Hint: think the problem through carefully; there is more than one possible answer. Show all ranges of d for which the mechanism will be Grashof. Combine ranges if possible, in order to get full credit.]

