

# 4 BAR LINKAGE

## WORK SHEET

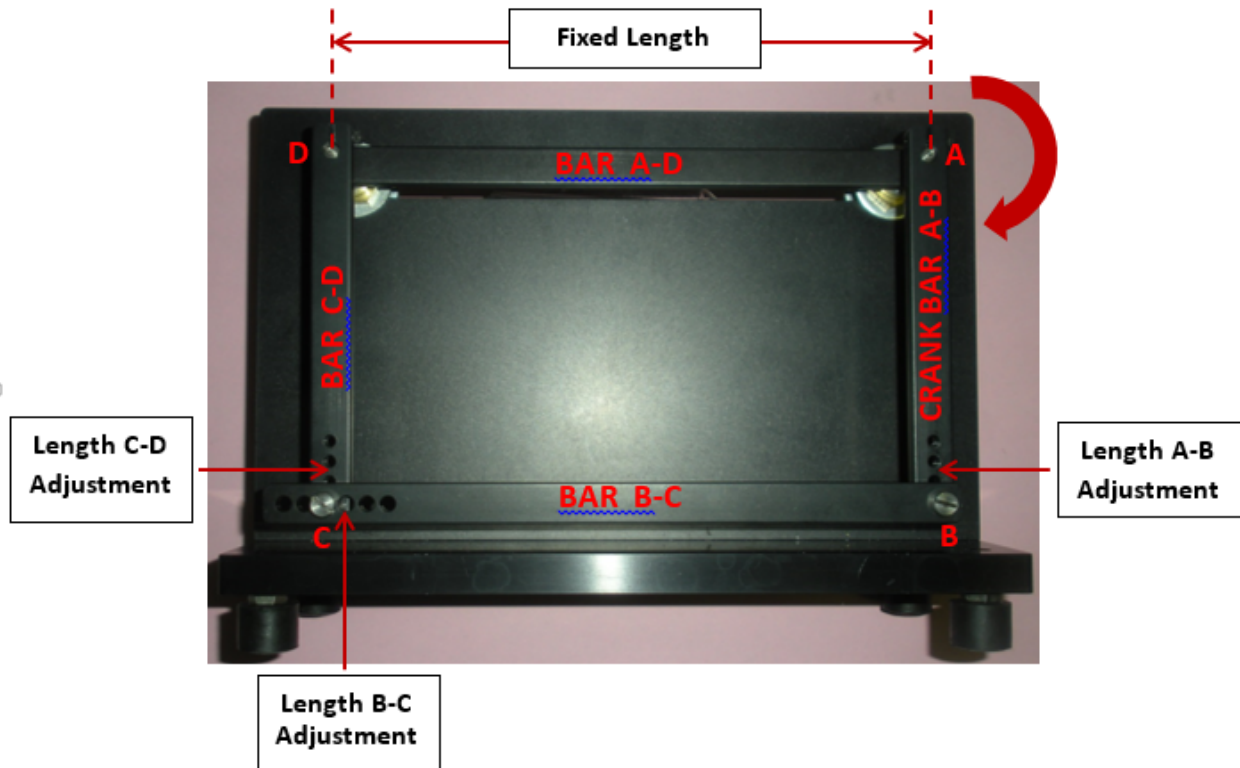
Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Directions:

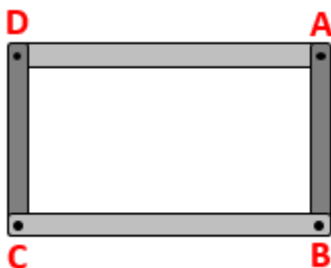
Use the “4 Bar Linkage Assembly” as shown below to answer the following problems. Adjust the lengths of the bars as described in each problem then, rotate the crank.

Under results, describe in detail what you see happening to the mechanism, when you rotated the crank.



### Situation

1. Bar B-C = Bar A-D  
Bar A-B = Bar C-D



### Results

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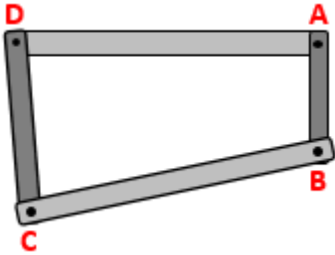
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## Situation

2. Bar B-C = Bar A-D  
Bar A-B is shorter than Bar C-D



## Results

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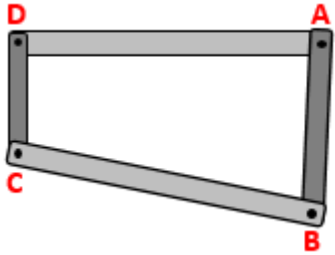
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3. Bar B-C = Bar A-D  
Bar A-B is longer than Bar C-D



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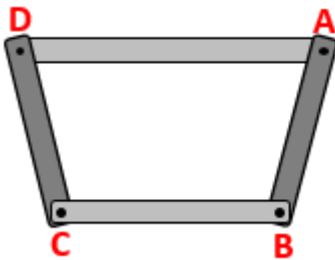
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4. Bar B-C is shorter than Bar A-D  
Bar A-B = Bar C-D



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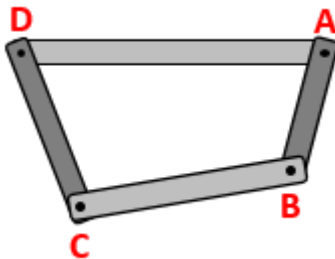
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5. Bar B-C is shorter than Bar A-D  
Bar A-B is shorter than Bar C-D



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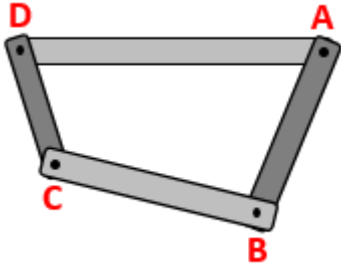
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### Situation

### Results

6. Bar B-C is shorter than Bar A-D  
Bar A-B is longer than Bar C-D



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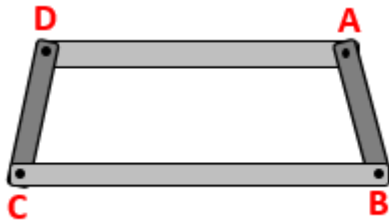
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7. Bar B-C is longer than Bar A-D  
Bar A-B = Bar C-D



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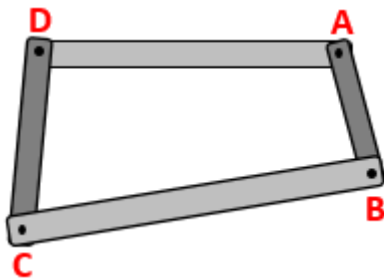
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8. Bar B-C is longer than Bar A-D  
Bar A-B is shorter than Bar C-D



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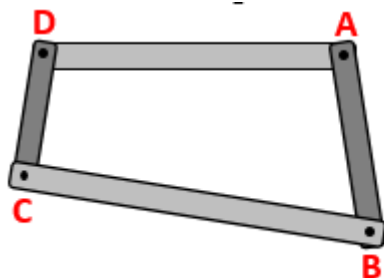
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9. Bar B-C is longer than Bar A-D  
Bar A-B is longer than Bar C-D



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