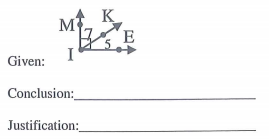
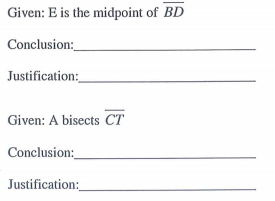
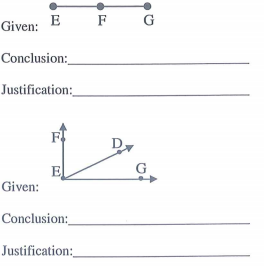
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Making Conclusions: An Introduction to Proof Writing HW

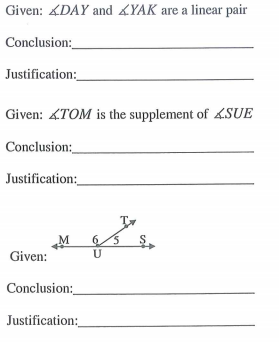
Directions: Make a geometric conclusion based on the given information or diagram. You may need to draw a figure to visualize the concept prior to making a conclusion. Then use your justifications to explain the geometric conclusion.



1. 7.

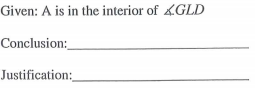
2.

8.

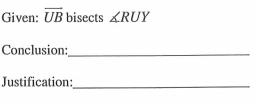
3.

9.

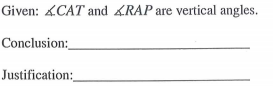
4.

 10.

5.



11.

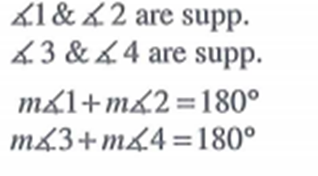


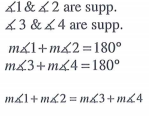
6.

Directions: Fill in the correct justifications to make a logical argument.

12.

Statements: Reasons:

1. 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



2. 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

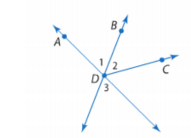
3. 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



4. 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



5. 5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



13. Given:

Prove: <2<3

Statements: Reasons:

1. 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. <2<1 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

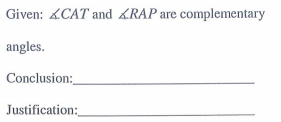
3. <1<3 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

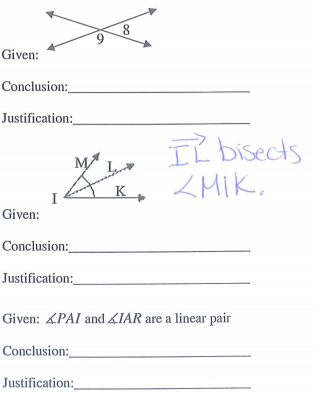
4. <2<3 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

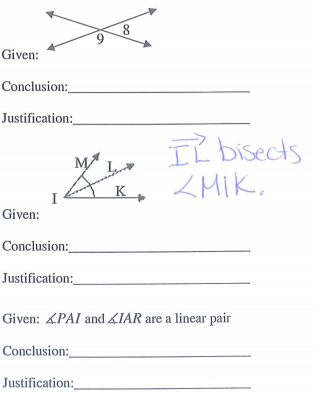
**Making Conclusions: An Introduction to Proof Writing Notes**

Directions: Make a geometric conclusion based on the given information or diagram. You may need to draw a figure to visualize the concept prior to making a conclusion. Then use your justifications to explain the geometric conclusion.

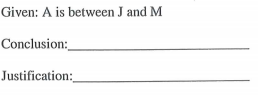
1.



2.



3.



4.

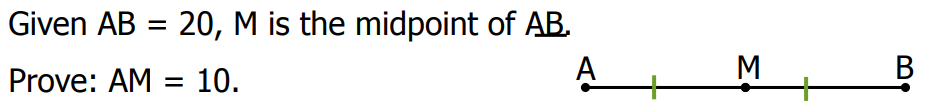
Proof Notes

**Proof:** A mathematical argument or explanation that begins with known facts, uses definitions, axioms, postulates, theorems to arrive at a conclusion about a geometric statement.

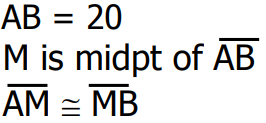
**Steps to writing a two-column proof:**

1. First state the given.
2. What can you conclude from the given?
3. What can you conclude from the diagram?
4. Redecorate & Reason
5. End with what you wanted to prove.
6. Double check logic and make sure your steps are numbered.

Skeleton Proof: Fill in the blank proof.

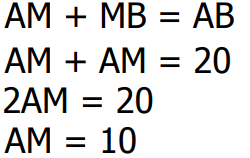
5.

Statements: Reasons:

1. 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

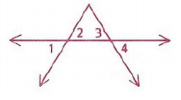
3. 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. 5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. 6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. 7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



6. Given: <2<3

Prove: <1<4

Statements: Reasons:

1. <2<3 1.

2. <2<1 2.

3. <4<3 3.

4. <1<4 4.