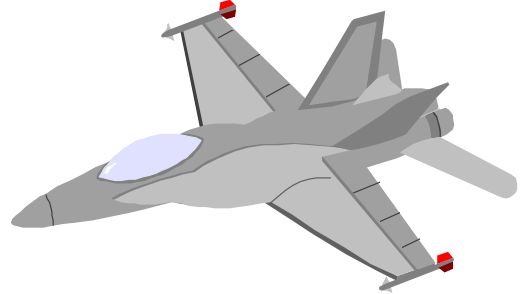


Name: _____ Date: _____

Heads Up Activity – Flight Distances Worksheet

Directions

Fly your airplanes three times each, and record the distance of each flight to the nearest foot as well as the amount of time it stayed in the air. Take your three measurements, add them together, and divide by three to get your average flight length.



First Plane Design

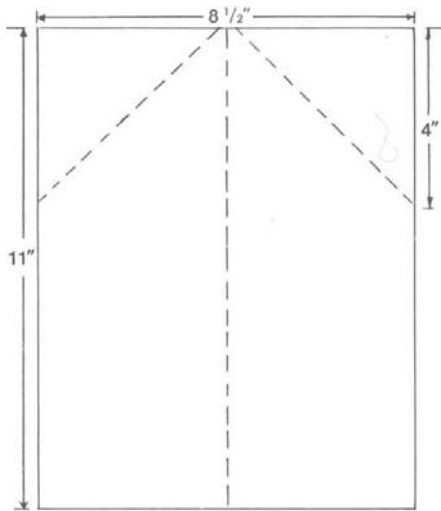
| Flight # | Length in feet | Time in seconds |
|----------------|----------------|-----------------|
| 1 | | |
| 2 | | |
| 3 | | |
| Average | | |

Second Plane Design

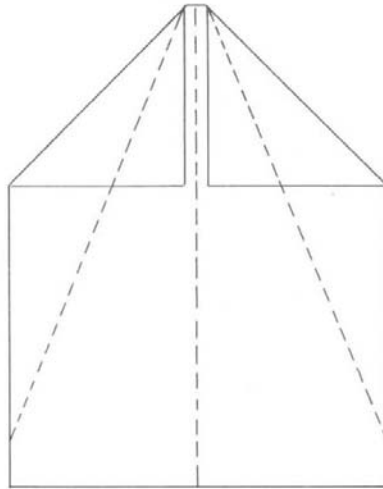
| Flight # | Length in feet | Time in seconds |
|----------------|----------------|-----------------|
| 1 | | |
| 2 | | |
| 3 | | |
| Average | | |

Heads Up Activity – Sample Airplane Designs

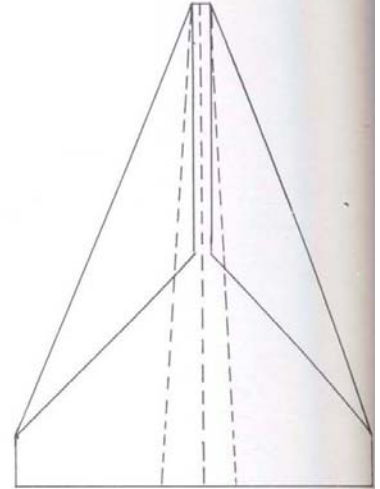
Plane #1



1. Crease on center line.
Fold corners in as shown



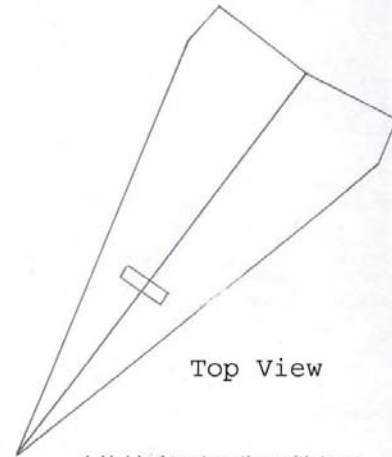
2. Fold again on dotted line



3. Fold away from you on center line.
Make opposite folds on dotted lines

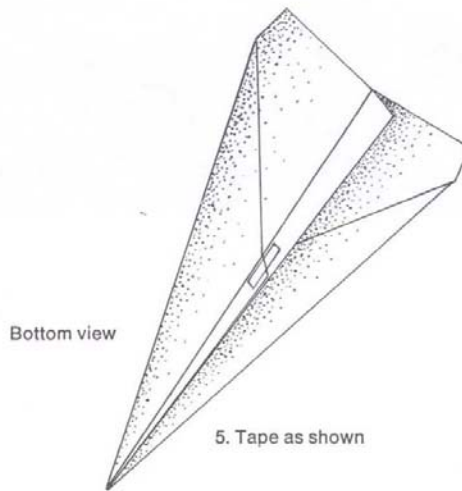


4. To get this



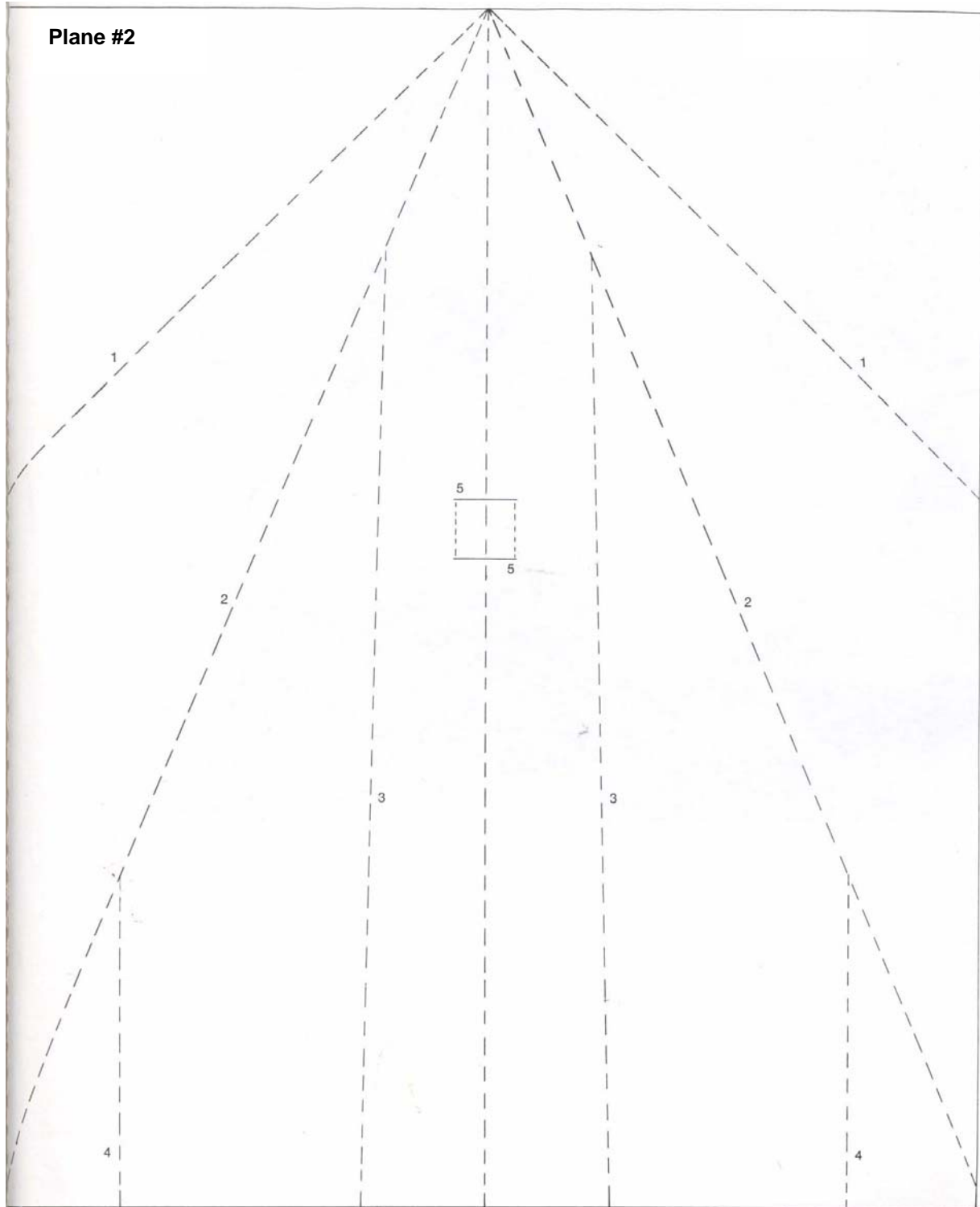
Top View

4. Hold wings together with tape giving them a slight upward angle (see photo)



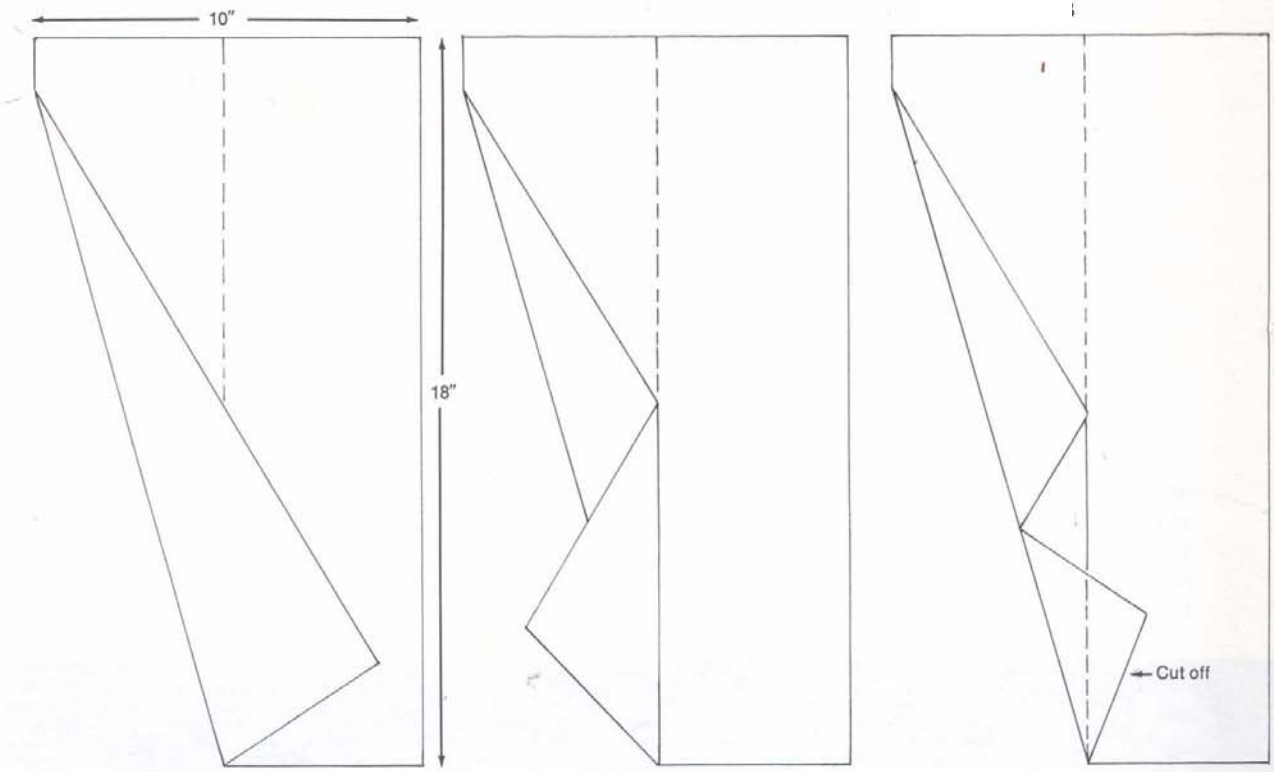
Bottom view

5. Tape as shown



Instructions for Plane 2

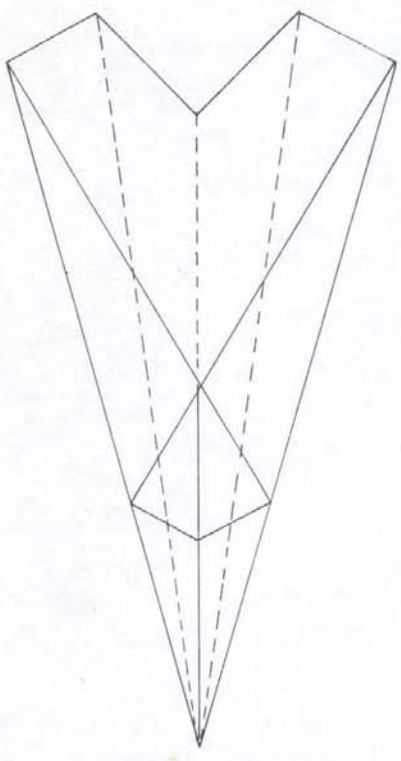
Fold at the center line. Unfold and fold at 1. Hold down and fold at 2. Fold at center and then fold away from center at 3 to form wing. Form up at 4 to form stabilizer. After folding is completed, cut along solid lines 5. Double up on dotted line to lock body together.



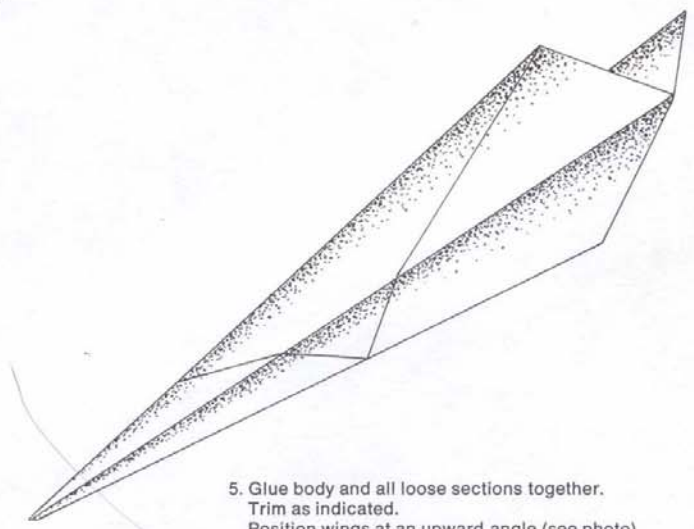
1. Fold on center line.
Open and make fold as shown

2. Fold back again at center line...

3. And back again.
Trim off part that extends beyond center. Repeat on other half.

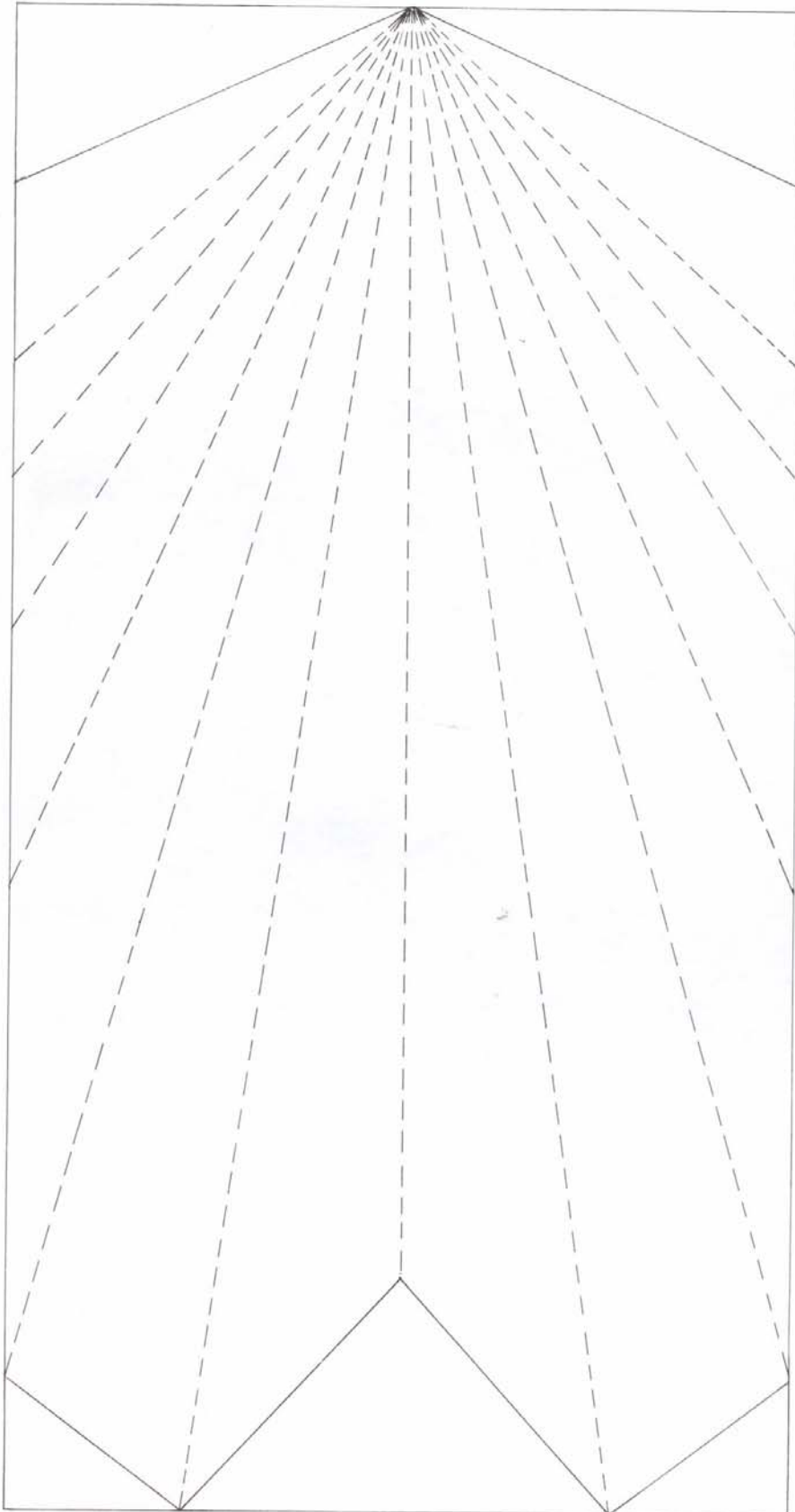


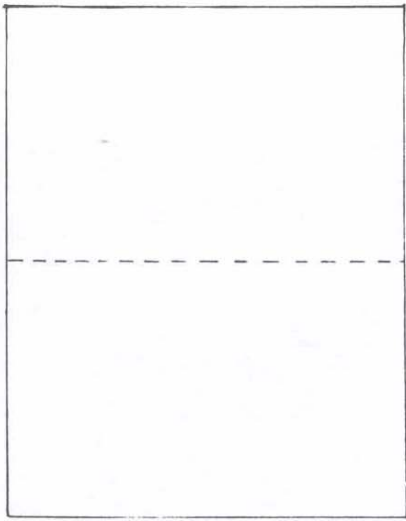
4. Fold down on center line.
And up on sides



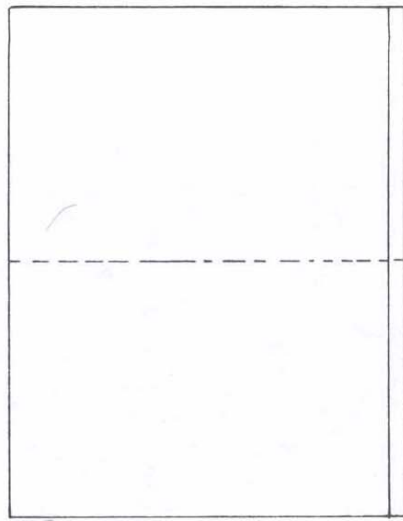
5. Glue body and all loose sections together.
Trim as indicated.
Position wings at an upward angle (see photo)

Plane #3

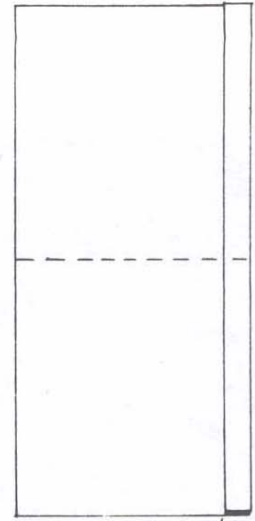




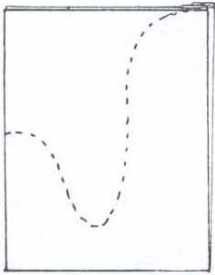
1. Crease 8 1/2" x 11" sheet down center



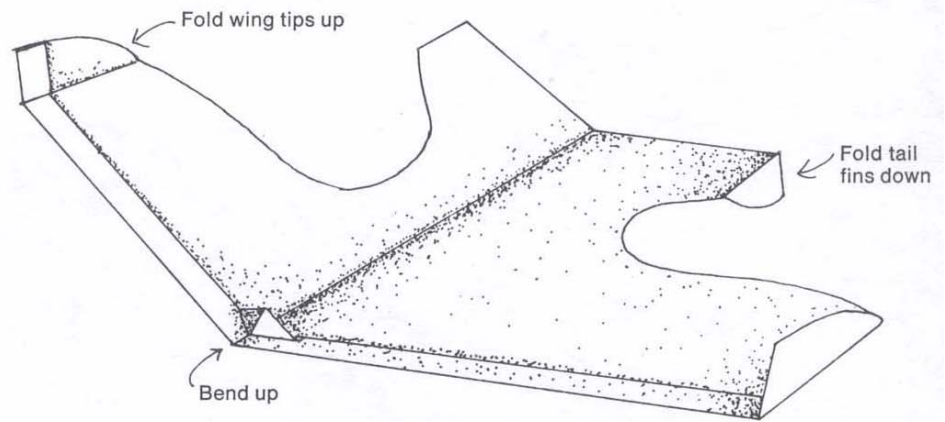
2. Start with a fold of about 1/4"



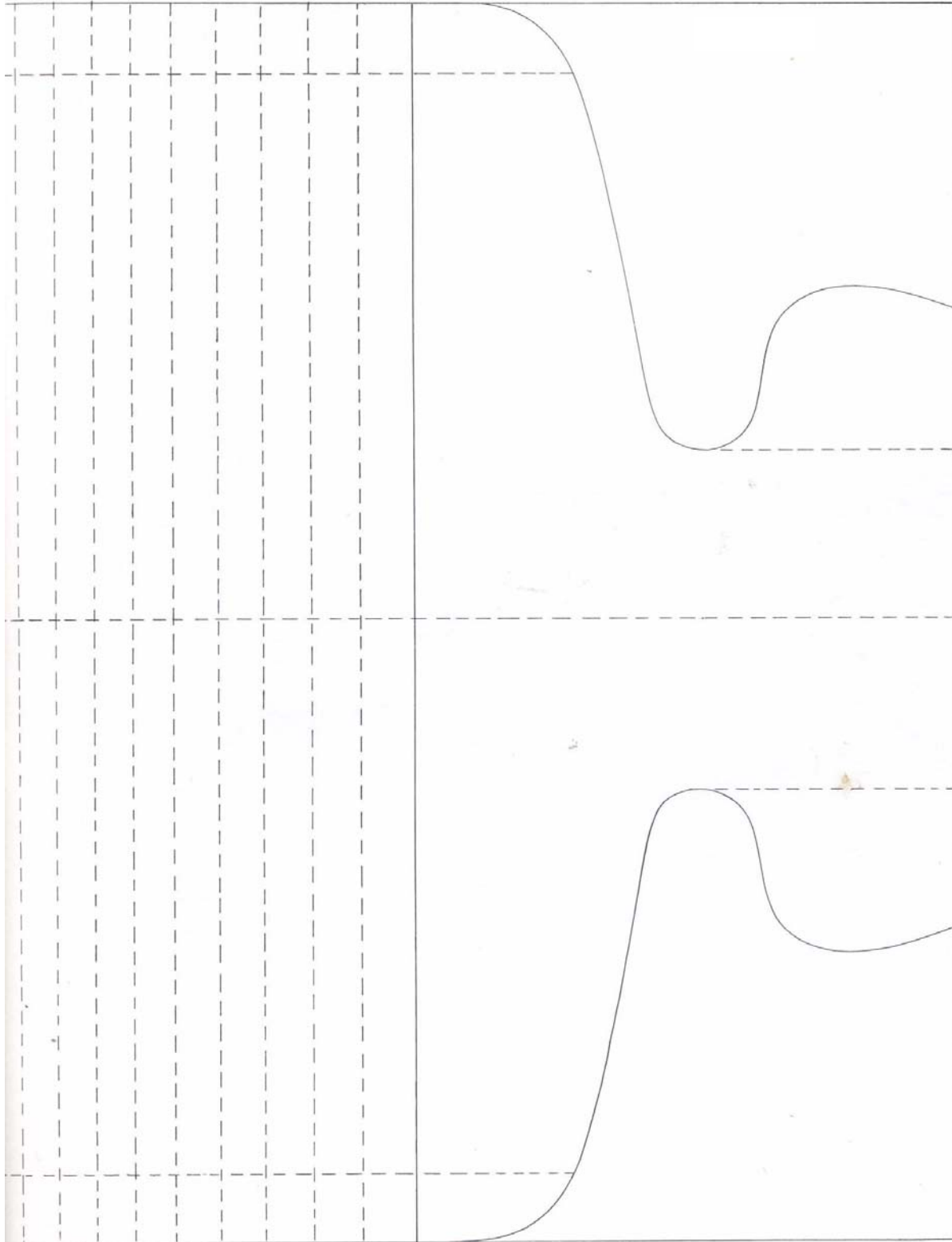
3. Continued folding until about 4 1/2" are left



4. Fold in half and cut as shown



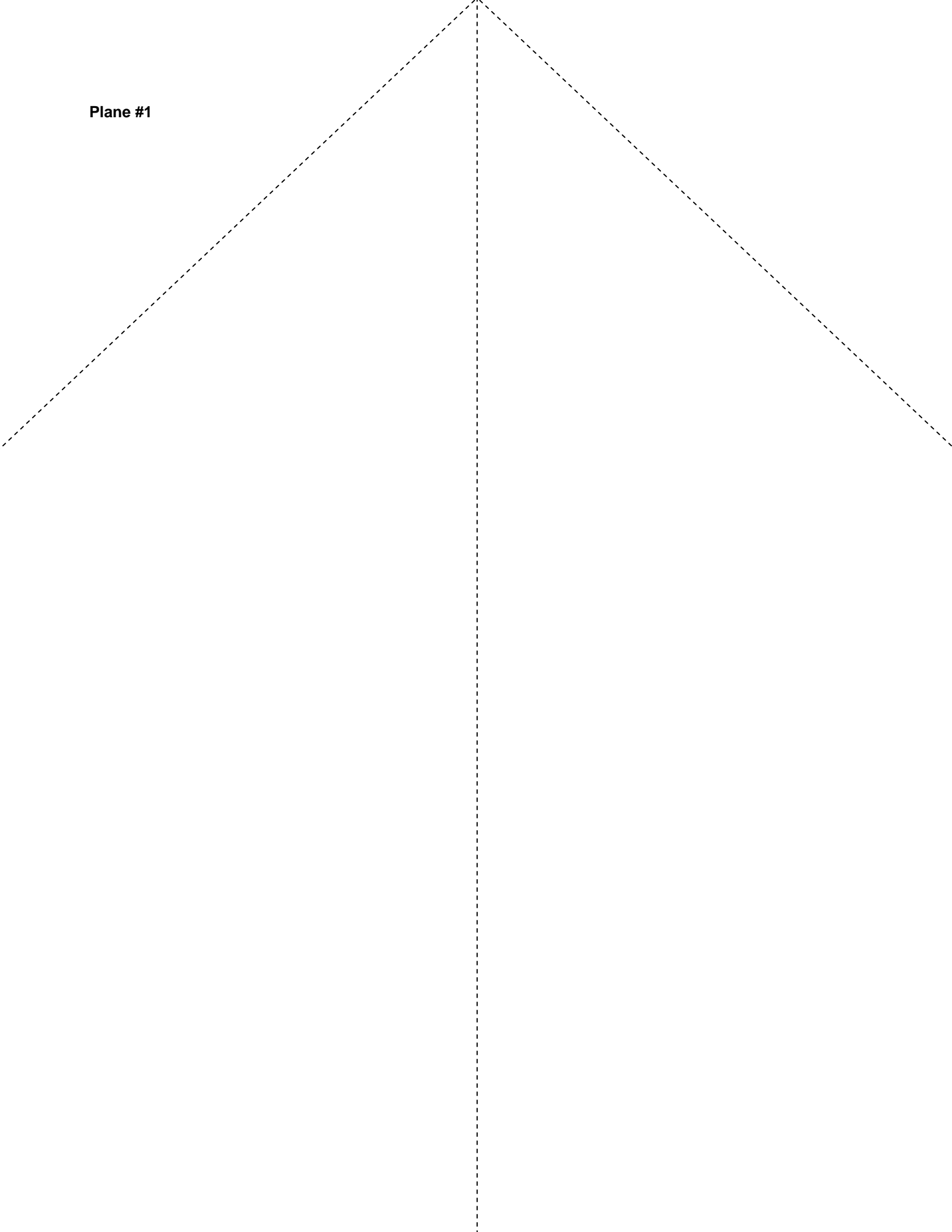
Plane #4 (continued)



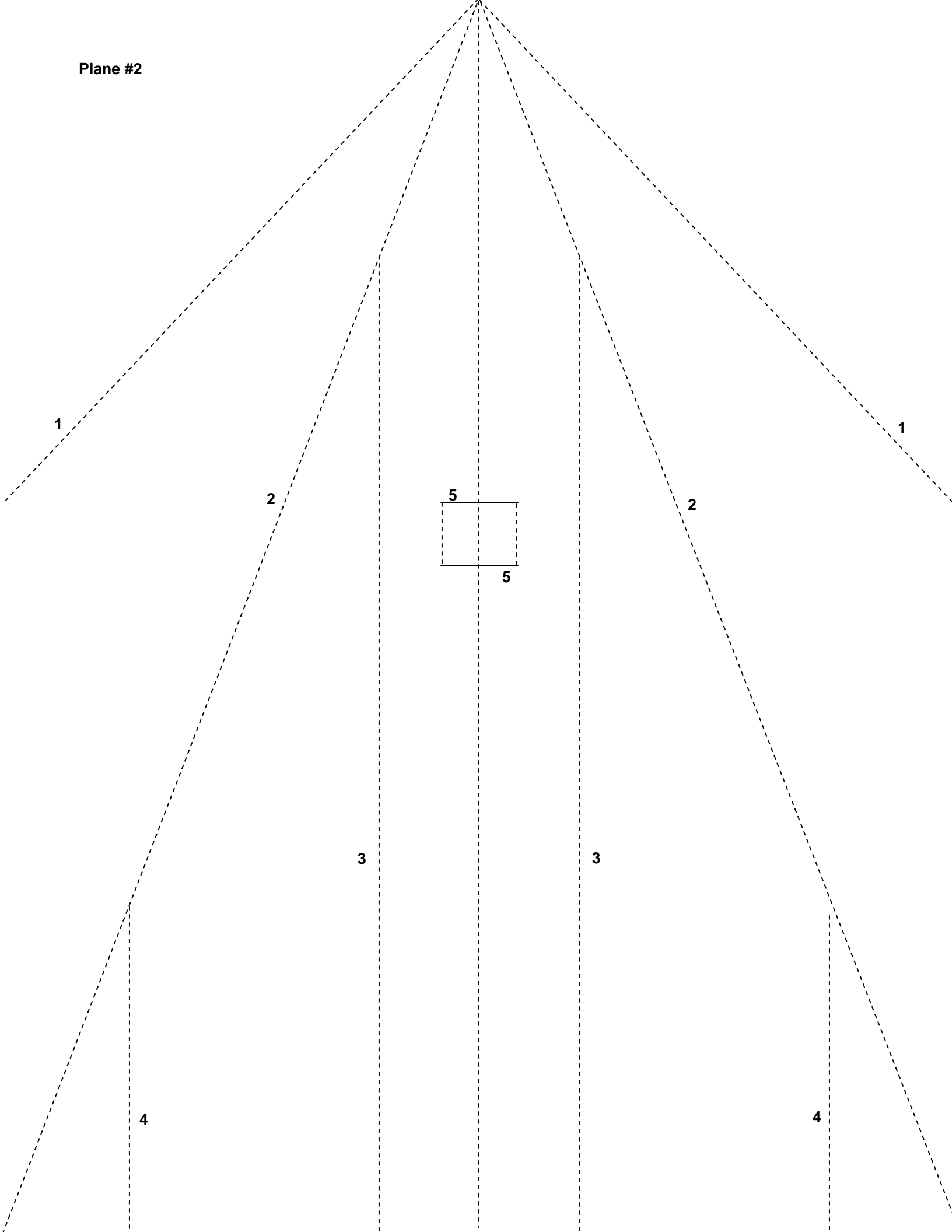
Plane designs source:

Mander, J., Dippel, G., Gossage, H. The Great International Paper Airplane Book, Simon and Schuster, New York, NY, 1967.

Plane #1



Plane #2



Plane #3

