



DOCUMENT
GSM-EL-PS1.054

DOCUMENT TITLE
PRE-SOLO SELF STUDY 1

CHAPTER 5 – CIRCUIT VOCABULARY

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BASIC POSITIONS IN THE CIRCUIT

The circuit can be divided into 5 legs. UPWIND, CROSSWIND, DOWNWIND, BASE and FINAL. Each leg can be further divided according to where an aircraft is on the leg. Study the basic positions.

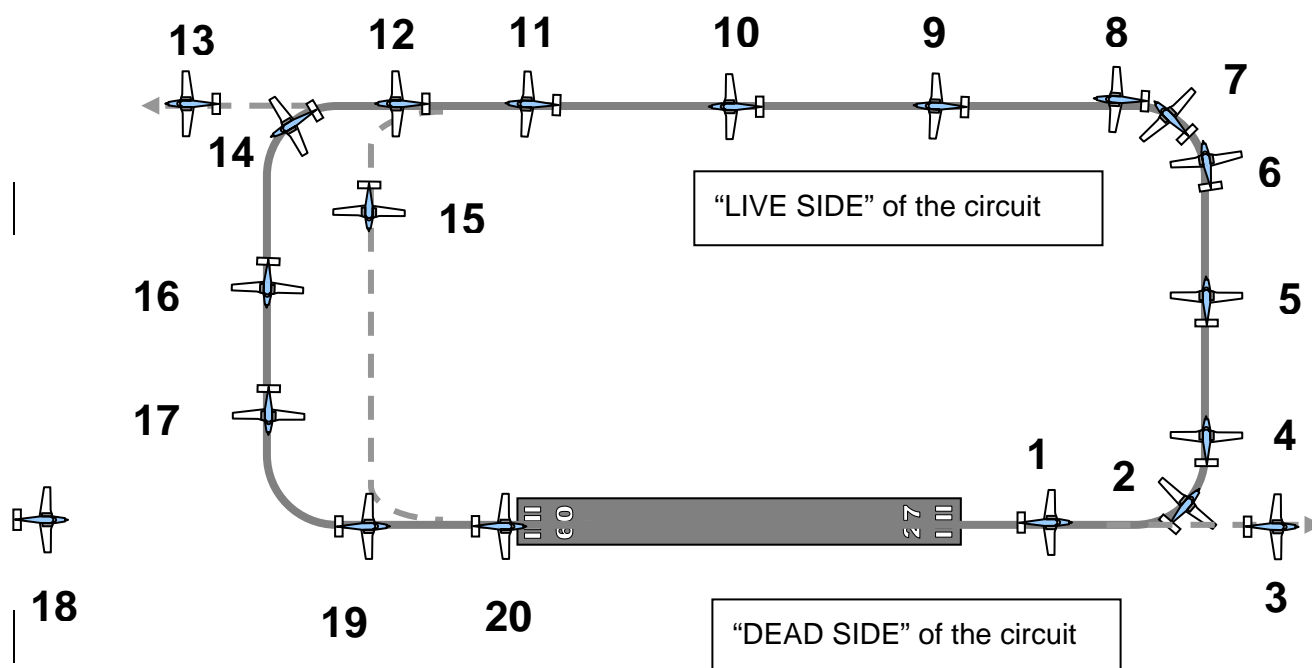
NOTE

The Downwind leg at Parafield is flown at 1,000 feet.

You should be on final approach by 500 metres from the runway threshold.

Parafield Airport has parallel runway operations.

The right circuit has right turns. The left circuit has left turns. Circuits which turn in opposite directions are called contra-rotating circuits.



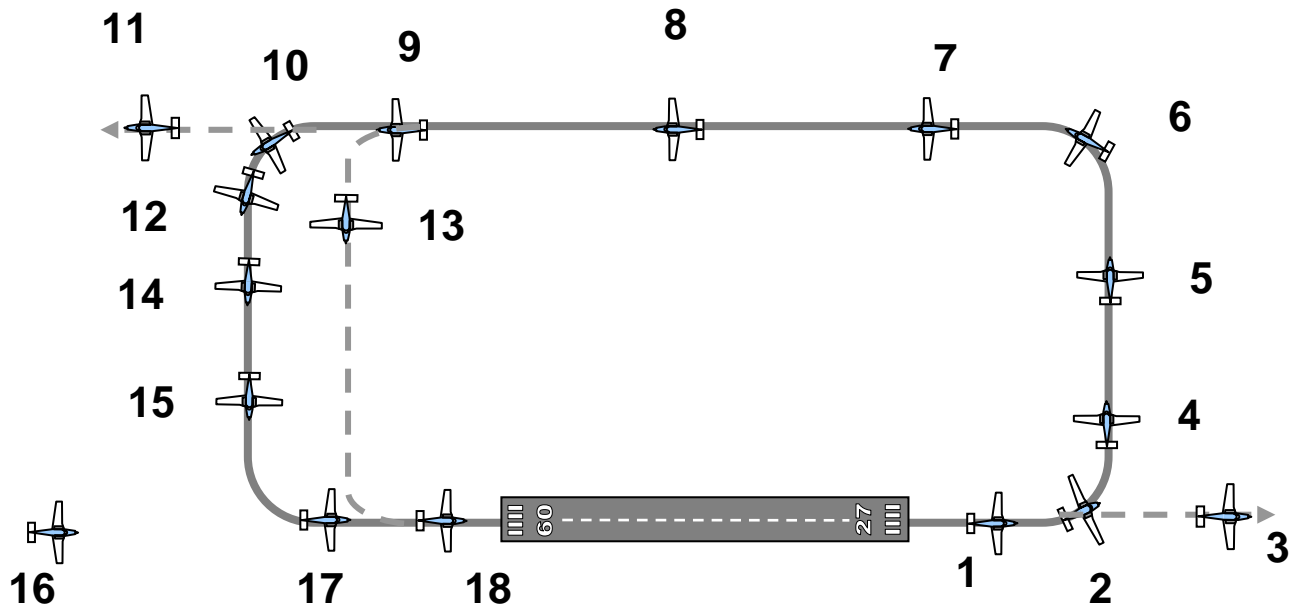
POSITIONS OF AIRCRAFT IN THE CIRCUIT

1. UPWIND LEG	2. TURNING CROSSWIND	3. MAINTAINING UPWIND
4. EARLY CROSSWIND	5. MID CROSSWIND	6. ABOUT TO TURN DOWNWIND OR JUST TURNING DOWNWIND
7. TURNING DOWNWIND	8. JUST TURNED DOWNWIND	9. EARLY TO MID DOWNWIND
10. MID DOWNWIND	11. MID TO LATE DOWNWIND	12. LATE DOWNWIND
13. EXTENDING DOWNWIND	14. TURNING BASE	15. CLOSE BASE
16. MID BASE	17. LATE BASE	18. LONG FINAL
19. FINAL	20. SHORT FINAL	

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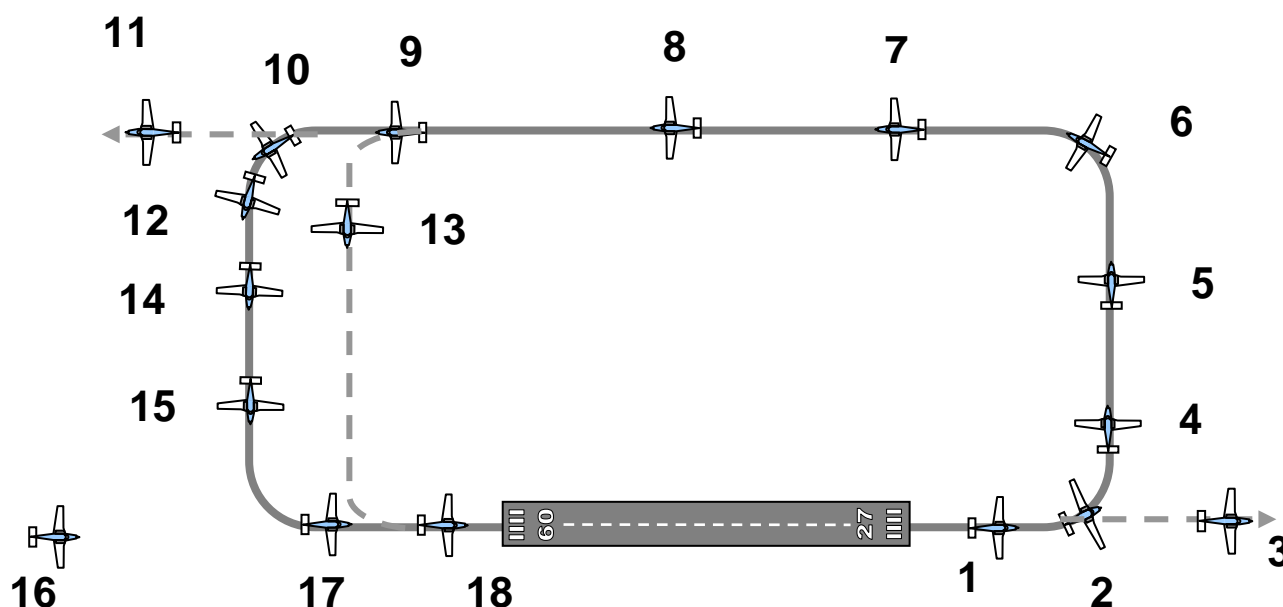


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1	7	13
2	8	14
3	9	15
4	10	16
5	11	17
6	12	18

POSITIONS OF THE AIRCRAFT IN THE CIRCUIT: ANSWERS



1. Upwind leg	7. Early to mid downwind	13. Close base
2. About to turn crosswind	8. Mid downwind	14. Mid base
3. Extending upwind	9. Late downwind	15. Late base
4. Early crosswind	10. Turning base	16. Long final
5. Mid crosswind	11. Extending downwind	17. Final
6. Turning downwind	12. Just turned base	18. Short final

OTHER CIRCUIT POSITIONS

Often the Controller will advise you of the position of other aircraft in the circuit which are not in the normal circuit pattern.

Would you know what a controller meant if he/she said.....

“XYD. Caution there’s traffic inside you”

“XYB. Caution there’s traffic outside you”.

“XYD, traffic in your 11 o’clock is a Duchess. Report sighting”

You may also be asked to change the circuit pattern you are flying.

Would you know what a controller meant if he/she said.....

“XYD, your circuits are too wide, tighten up your circuits”

“XYB, your circuits are too close, widen out your circuits”

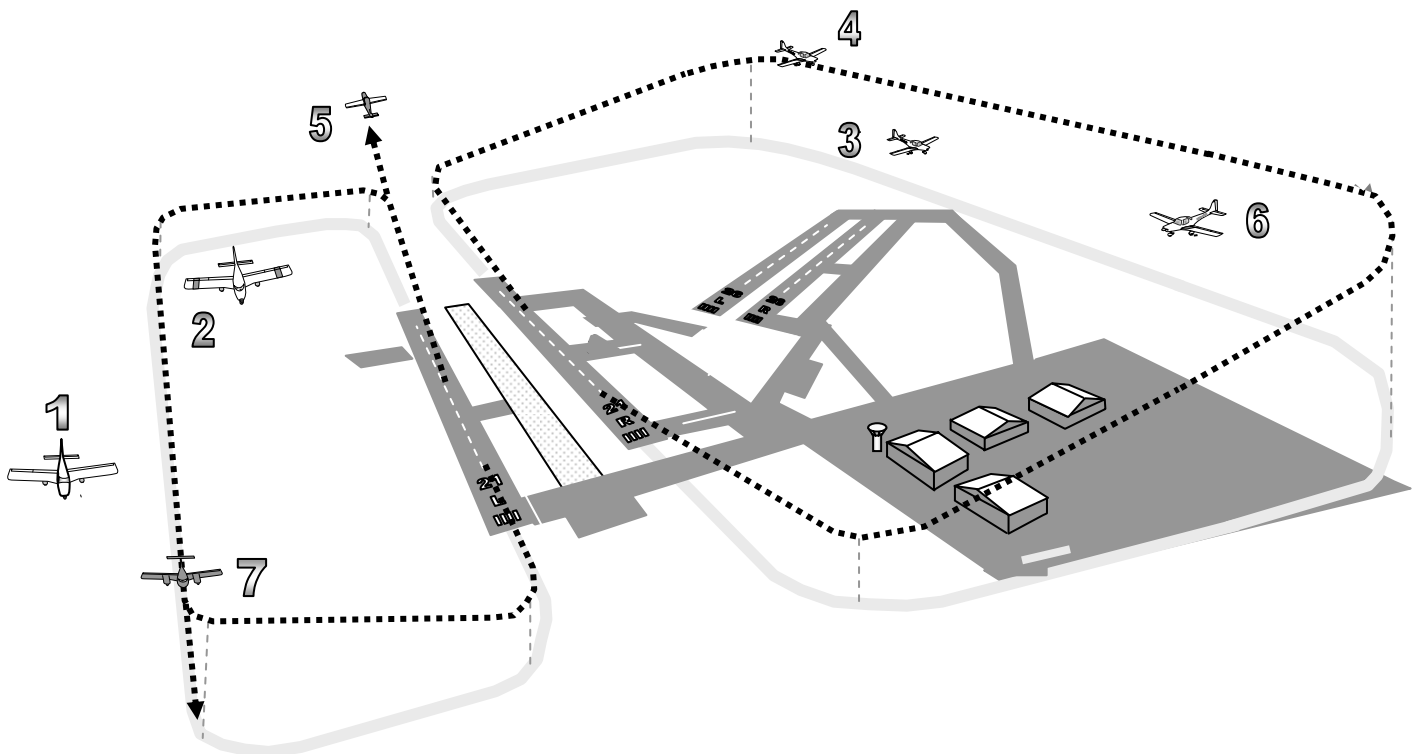
“XYB. your circuits are too tight, widen out your circuits”

“XYC, extend your downwind leg”

“XYA, make this a close base”

“XYG, extend upwind, till advised” or” XYG, maintain runway heading”

Look at the diagram and write the number of the aircraft the controller is referring to, next to each radio call. The instructions could refer to more than one aircraft.



OTHER CIRCUIT POSITIONS: ANSWERS

"XYD. Caution there's traffic inside you"

1 & 4

"XYB. Caution there's traffic outside you".

2, 7 & 3

"XYD, traffic in your 11 o'clock is a Duchess. Report sighting"

1

You may also be asked to change the circuit pattern you are flying.

Would you know what a controller meant if he/she said.....

"XYD, your circuits are too wide, tighten up your circuits"

1

"XYB, your circuits are too close, widen out your circuits"

2, 3 & 6

"XYB. your circuits are too tight, widen out your circuits"

2, 3 & 6

"XYC, extend your downwind leg"

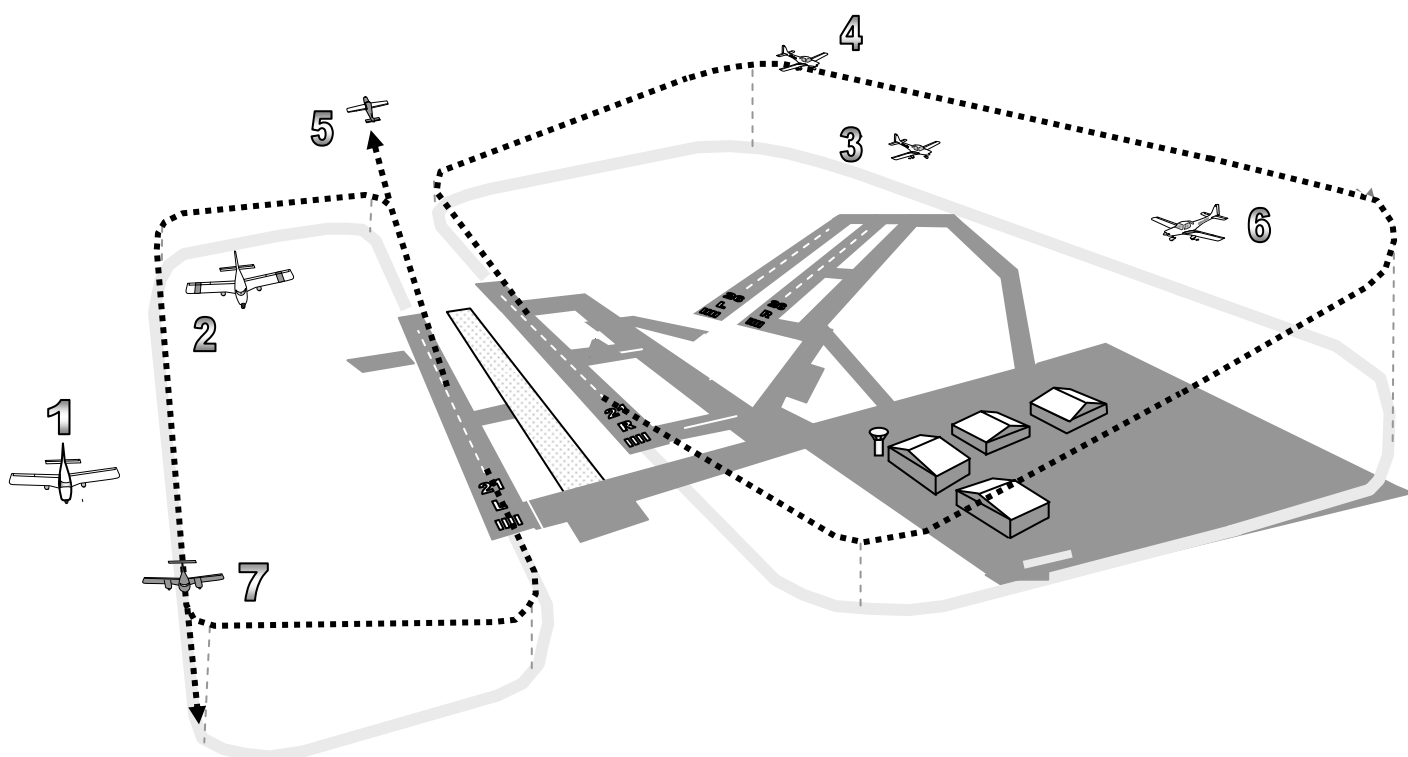
7

"XYA, make this a close base"

6

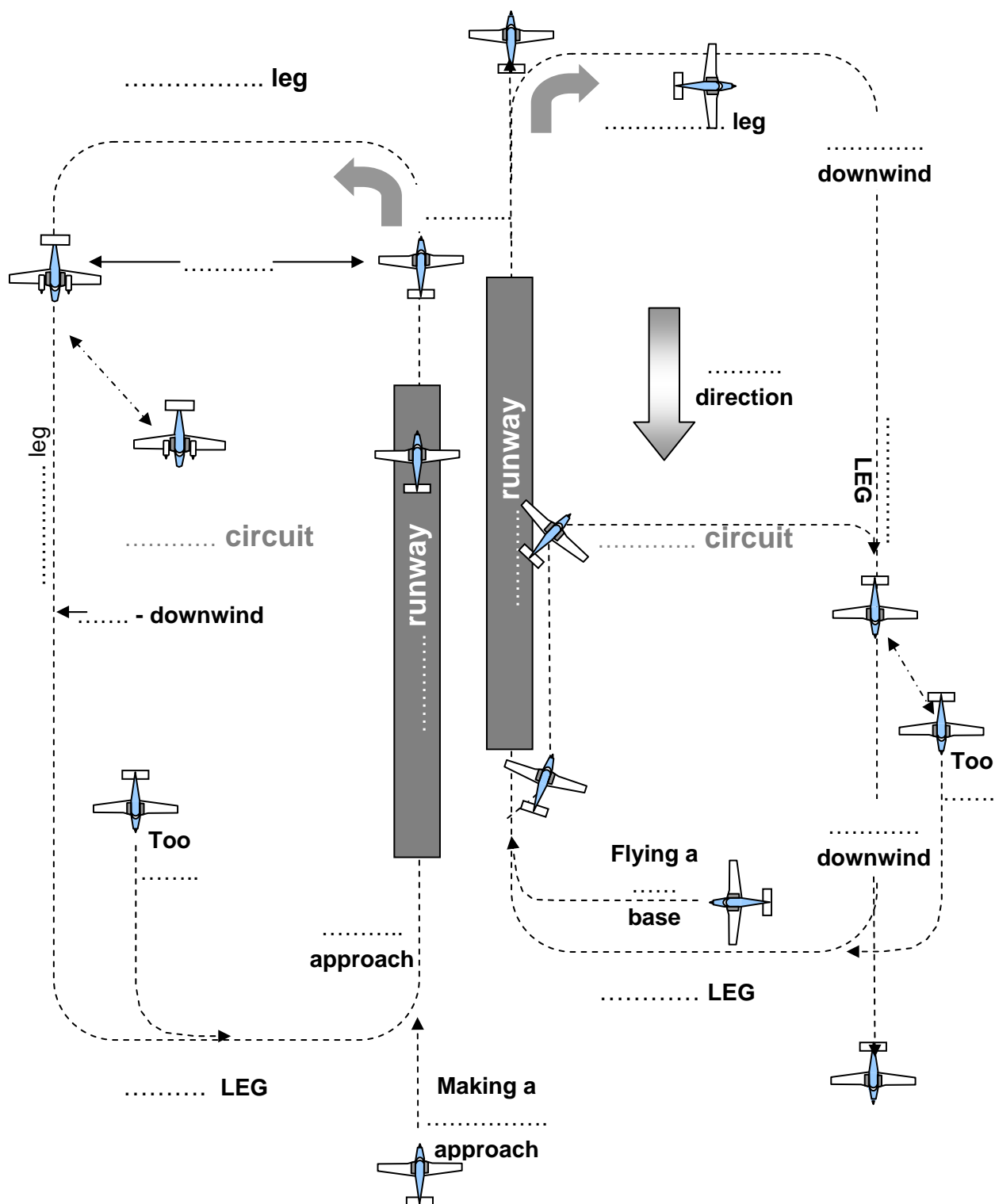
"XYG, extend upwind, till advised" or" XYG, maintain runway heading"

5

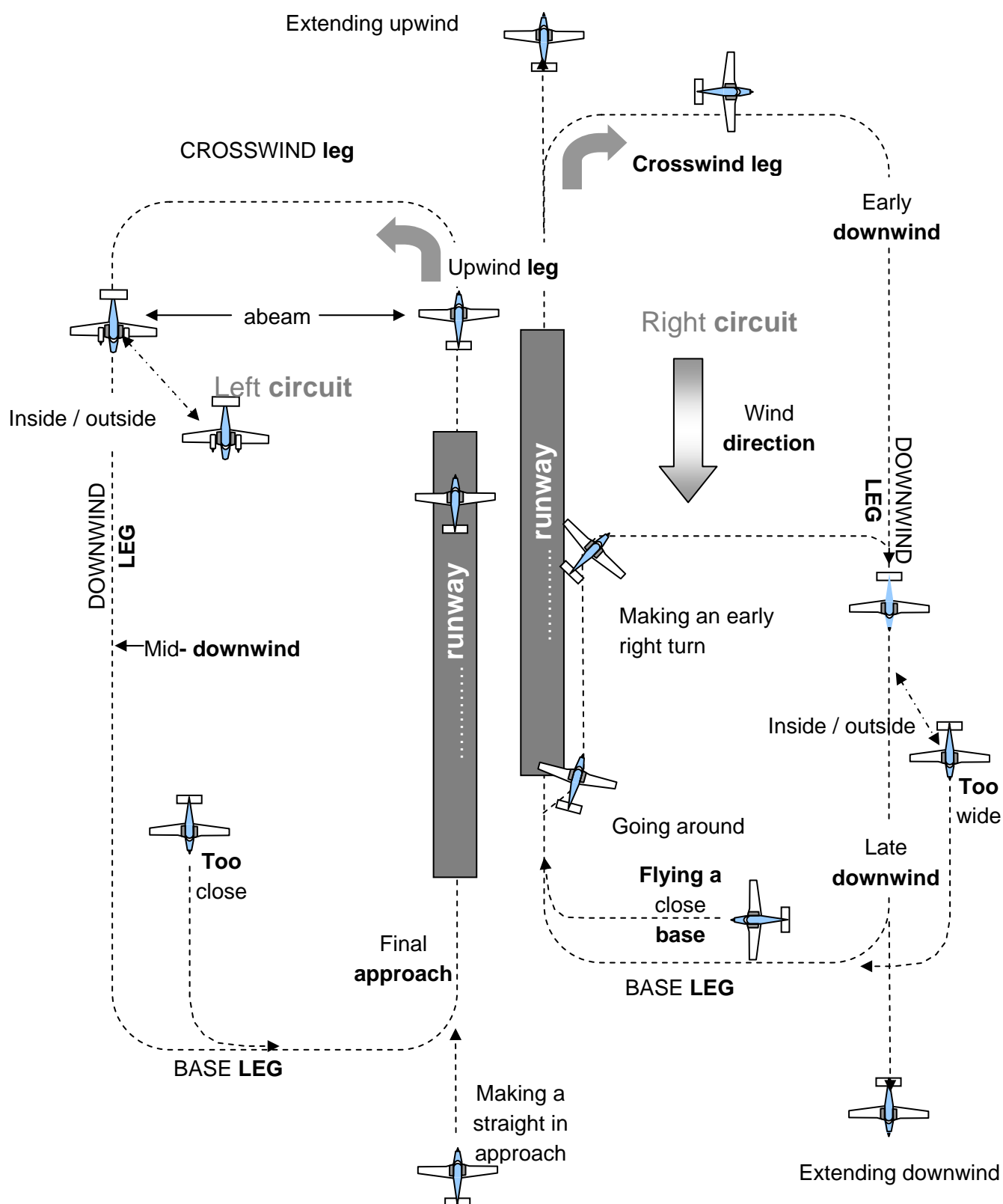


THE CIRCUIT – REVISION 1

Write down the missing words on the diagram.



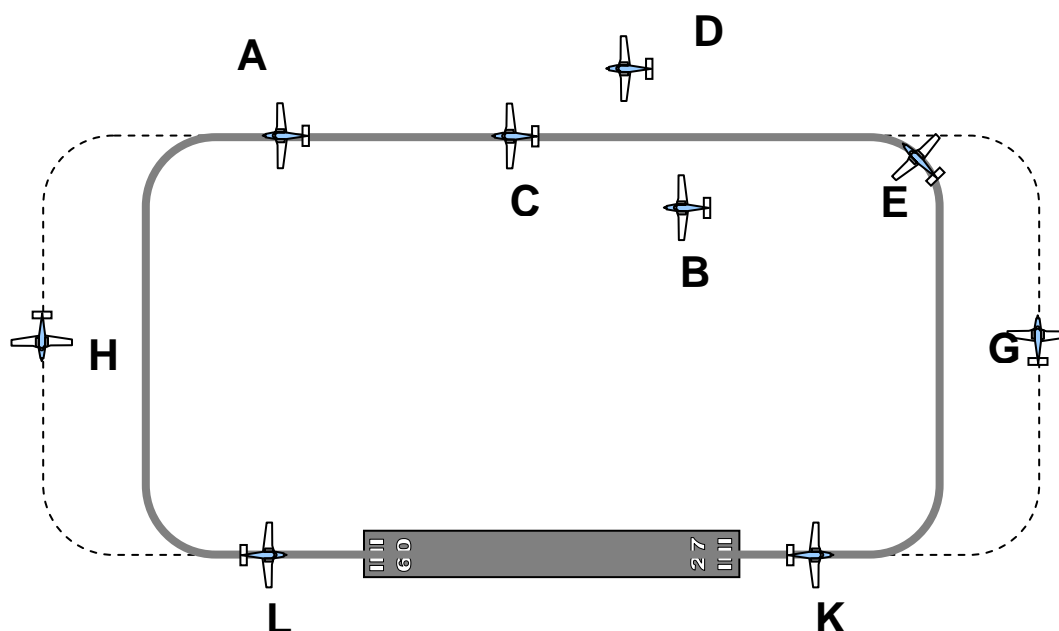
THE CIRCUIT – REVISION 1 ANSWERS



CIRCUIT REVISION 2

Look at the diagram and answer the questions.

- You are the pilot of aircraft "C". What is your position in the circuit?
 - late downwind
 - turning downwind
 - mid downwind
- Which aircraft is in the correct position to make his downwind radio call?
 - E
 - C
 - A
- You are the pilot of aircraft "C", and the Tower Controller warns you "Caution there is an aircraft inside you!". Which direction will you look to find the traffic?
 - Right
 - Left
- If the controller told the pilot of aircraft "C" that the preceding traffic was a Tobago, which aircraft would he be referring to?
 - A
 - E
 - H

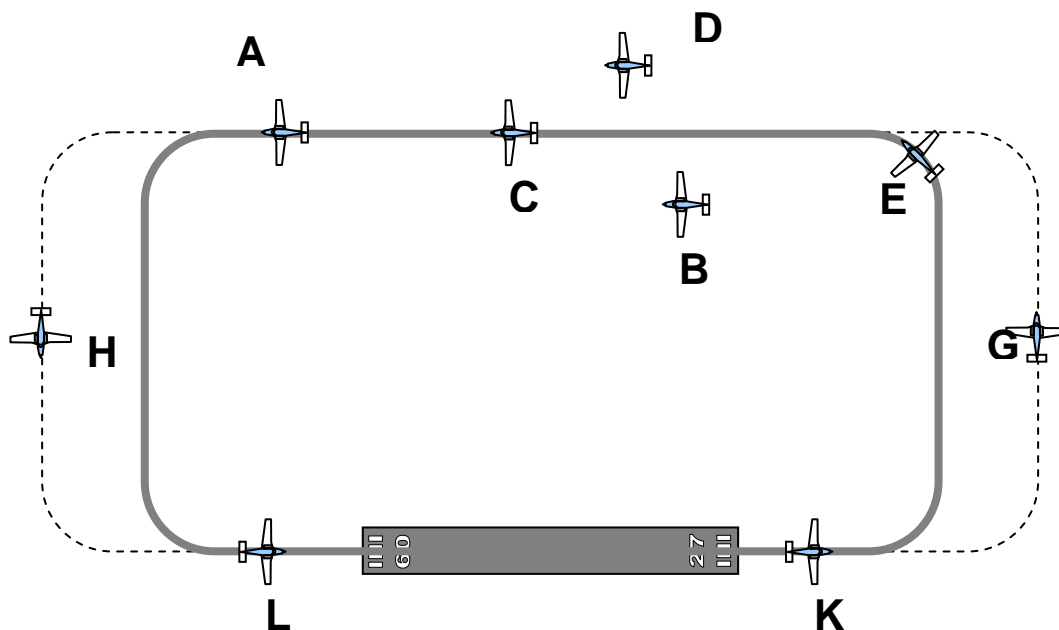


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5. Which aircraft is flying the widest circuit?
 - a. C
 - b. D
 - c. B
6. Which aircraft is flying the closest circuit?
 - a. B
 - b. C
 - c. D
7. Which aircraft has extended upwind?
 - a. G
 - b. H
8. Which aircraft has extended downwind?
 - a. H
 - b. G
9. Aircraft "K" has been asked to "maintain runway heading". This means he should:
 - a. Turn onto crosswind leg at X when he reaches 500 feet
 - b. Continue climbing straight ahead until he is told to turn

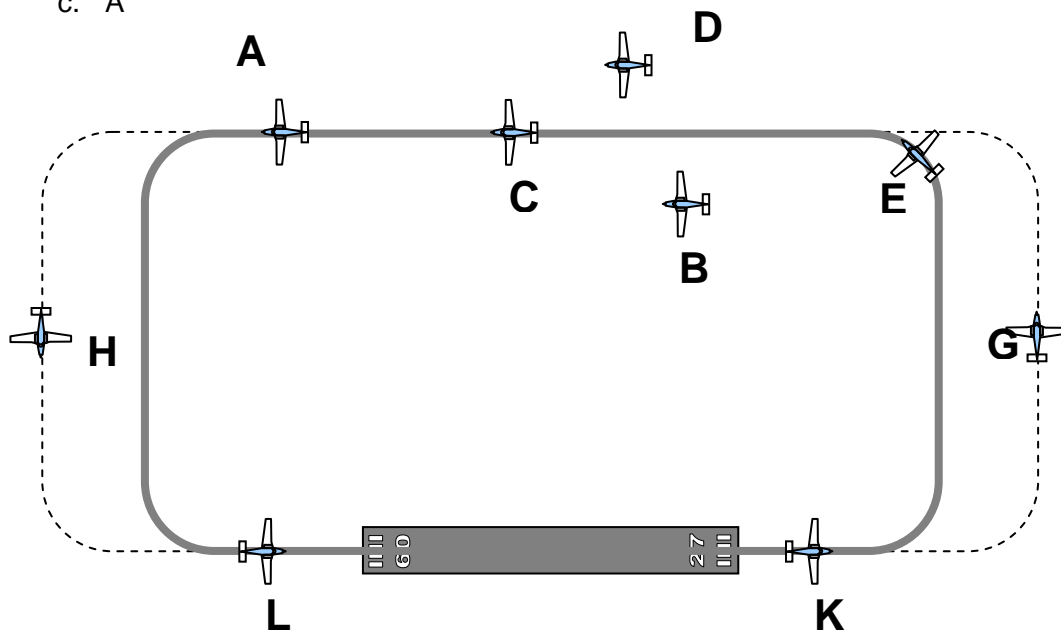


CHAPTER 5 CIRCUIT VOCABURARY

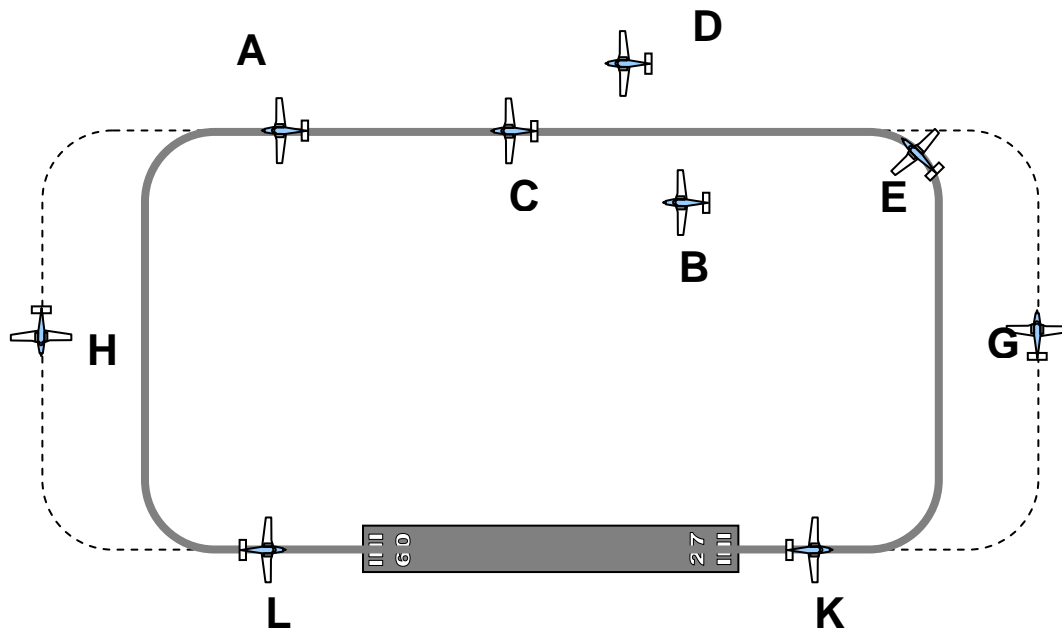


PRE-SOLO SELF STUDY 1

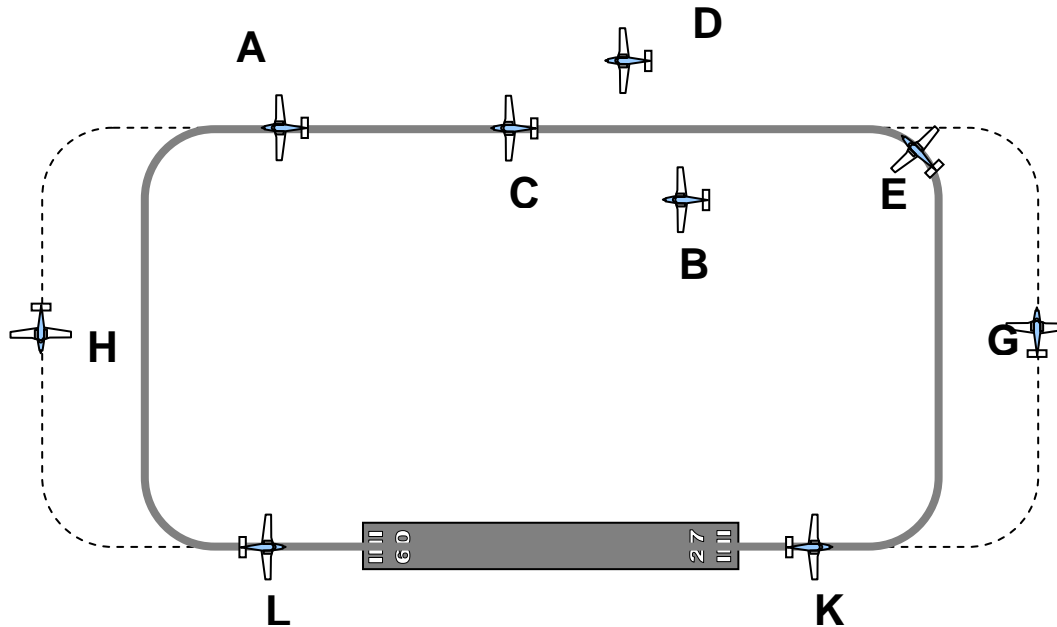
10. Which aircraft is outside of aircraft "C" on downwind?
 - a. D
 - b. B
11. The controller has asked for aircraft "H" to keep his speed up. The pilot should fly the approach:
 - a. Without slowing down
 - b. Slower than usual
12. Which aircraft do you think the controller would ask to "tighten up your circuit"?
 - a. B
 - b. D
 - c. H
13. The controller has asked aircraft "C" to "pull his speed back a bit" to follow an aircraft inbound from the Dam Wall. Should the pilot:
 - a. Not slow down
 - b. Slow down
14. The controller says, "Traffic in your 11 o'clock is a Tobago just turning downwind". Which aircraft is he talking to?
 - a. D
 - b. G
 - c. A



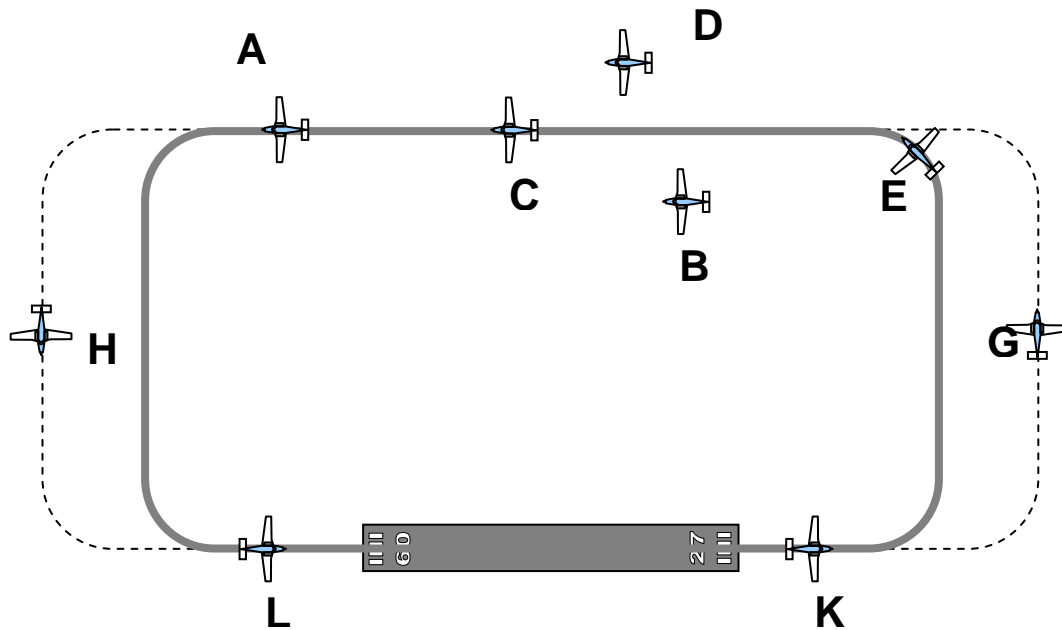
15. Aircraft "L" is on short final, when the pilot sights another aircraft on the runway. He does a "go round". Will an early left turn be available?
- Yes
 - No



CIRCUIT REVISION 2: ANSWERS

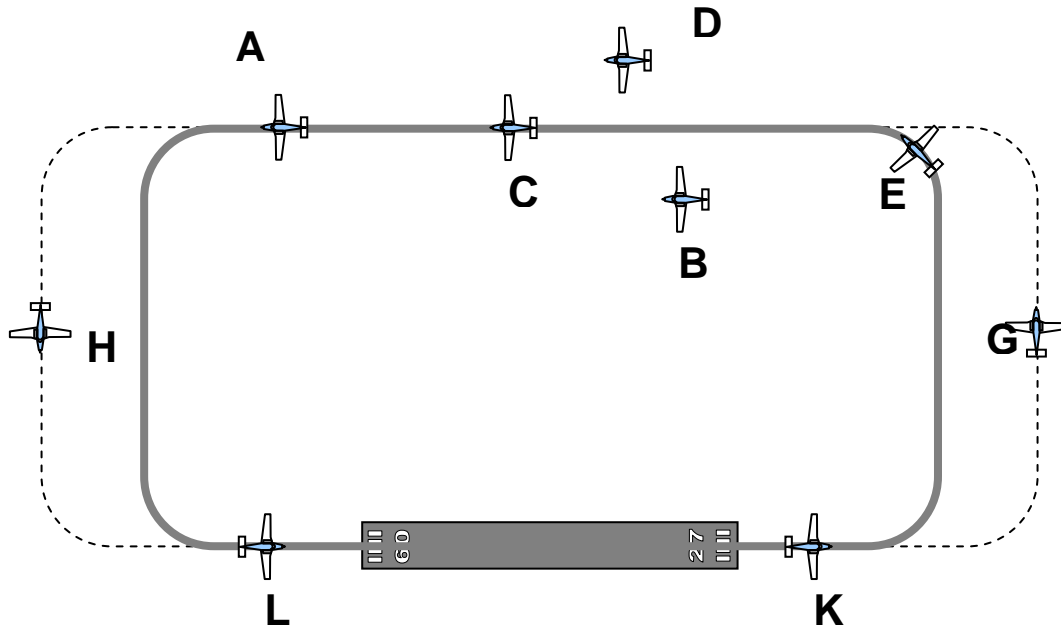


- You are the pilot of aircraft "C". What is your position in the circuit?
 - late downwind
 - turning downwind
 - mid downwind
- Which aircraft is in the correct position to make his downwind radio call?
 - E
 - C
 - A
- You are the pilot of aircraft "C", and the Tower Controller warns you "Caution there is an aircraft inside you!". Which direction will you look to find the traffic?
 - right
 - left
- If the controller told the pilot of aircraft "C" that the preceding traffic was a Tobago, which aircraft would he be referring to?
 - A
 - E
 - H



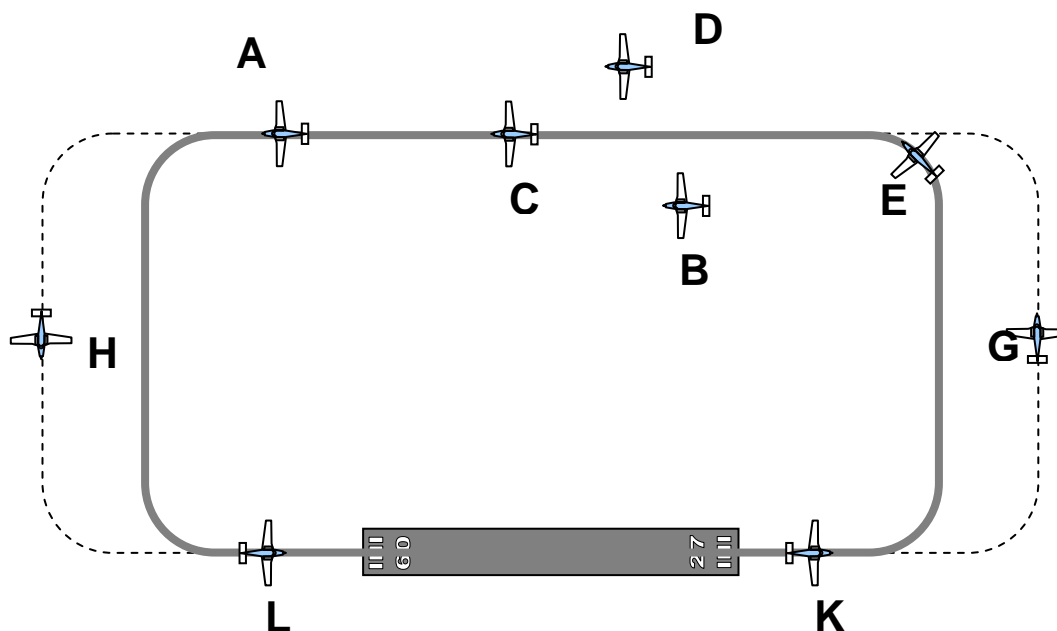
5. Which aircraft is flying the widest circuit?
 - a. C
 - b. D
 - c. B
6. Which aircraft is flying the closest circuit?
 - a. B
 - b. C
 - c. D
7. Which aircraft has extended upwind?
 - a. G
 - b. H
8. Which aircraft has extended downwind?
 - a. H
 - b. G

9. Aircraft "K" has been asked to "maintain runway heading". This means he should:
- turn onto crosswind leg at X when he reaches 500 feet
 - continue climbing straight ahead until he is told to turn



10. Which aircraft is outside of aircraft "C" on downwind?
- D
 - B
11. The controller has asked for aircraft "H" to keep his speed up. The pilot should fly the approach:
- Without slowing down
 - Slower than usual
12. Which aircraft do you think the controller would ask to "tighten up your circuit"?
- B
 - D
 - H
13. The controller has asked aircraft "C" to "pull his speed back a bit" to follow an aircraft inbound from the Dam Wall. Should the pilot.....
- Not slow down
 - Slow down

14. The controller says, "Traffic in your 11 o'clock is a Tobago just turning downwind". Which aircraft is he talking to?
- D
 - G**
 - A



15. Aircraft "L" is on short final, when the pilot sights another aircraft on the runway. He does a "go round". Will an early left turn be available
- Yes
 - No – The circuit is too busy**