Flying and Judging F3A

Taitolennokit FAI F3A

NORDIC N-13

SCHEMATIC MANOEUVRE ILLUSTRATIONS

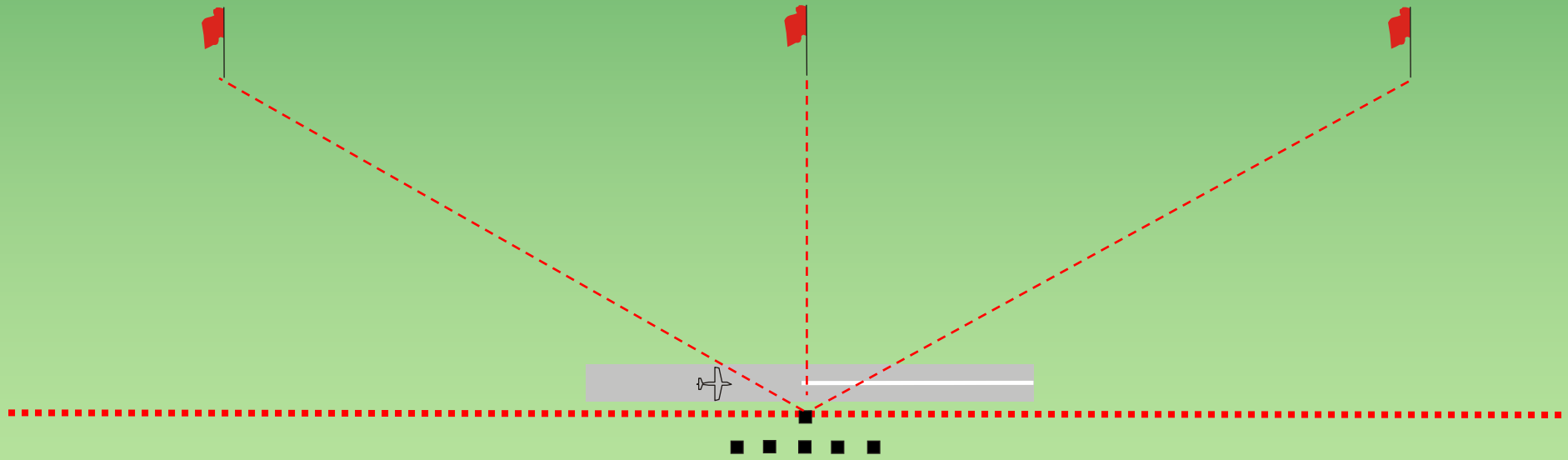
NORDIC SCHEDULE N-13

Raimo Sällinen, F3A Judge , May 12, 2012

Take-off procedure

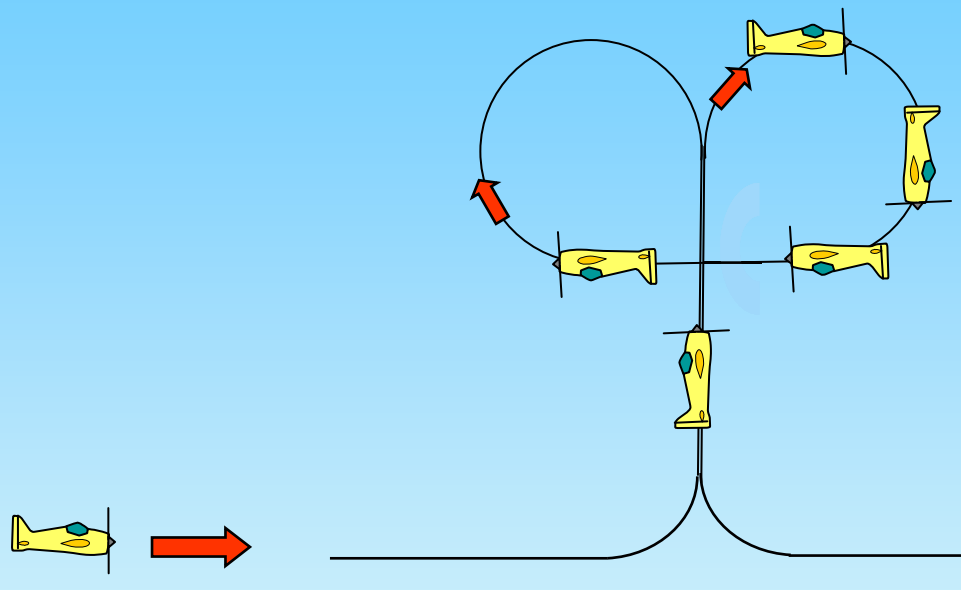
(not judged, not scored)

wind

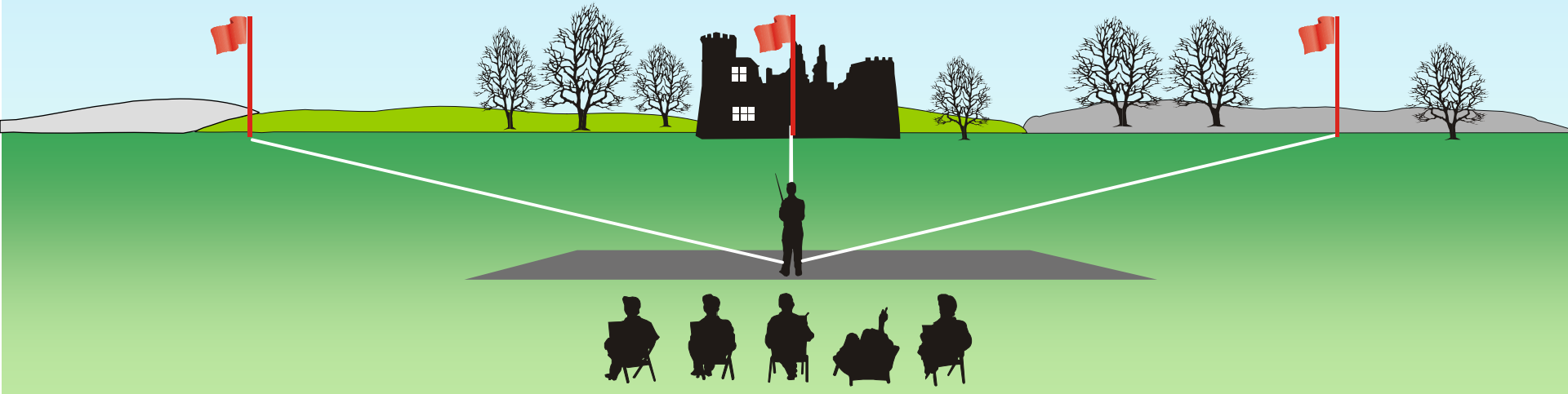


Security line

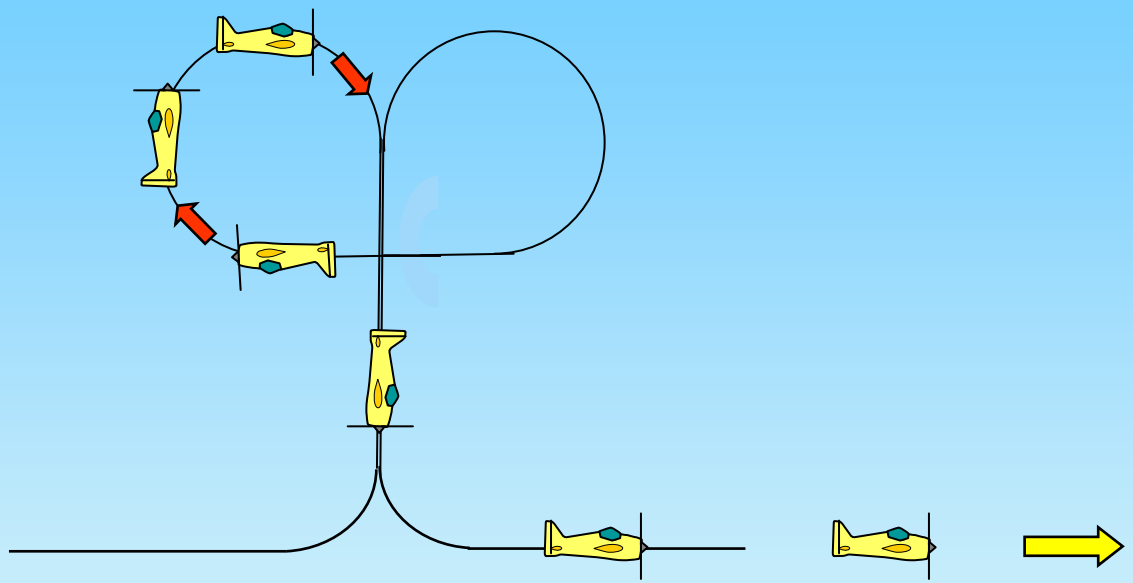
N-13.01: Half Clover Leaf

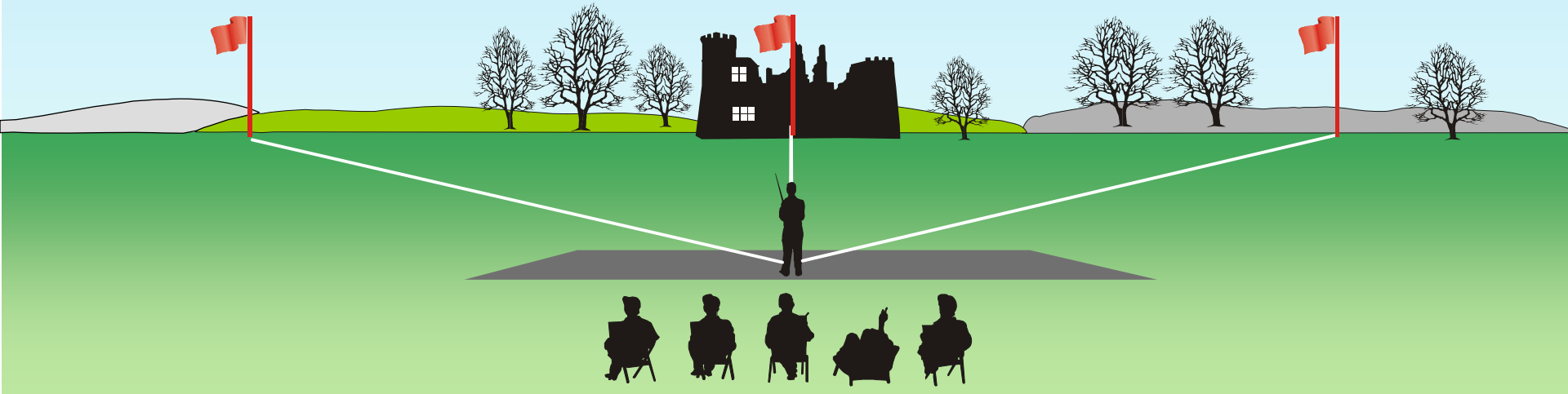


All radii are equal.



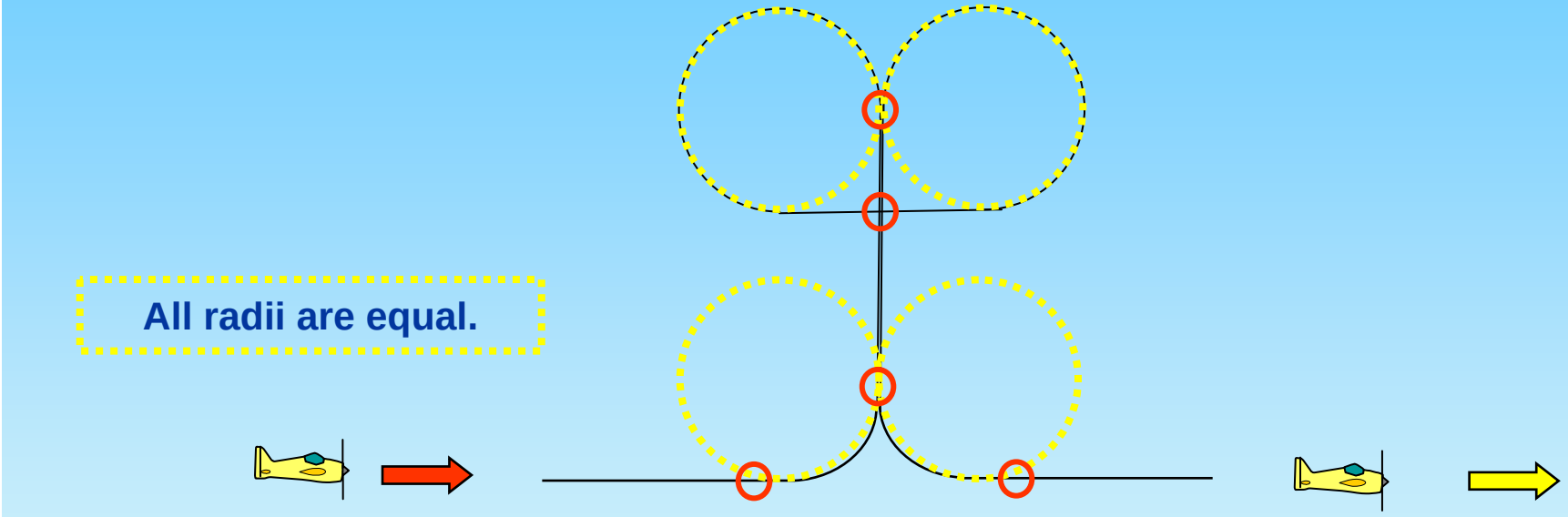
N-13.01: Half Clover Leaf

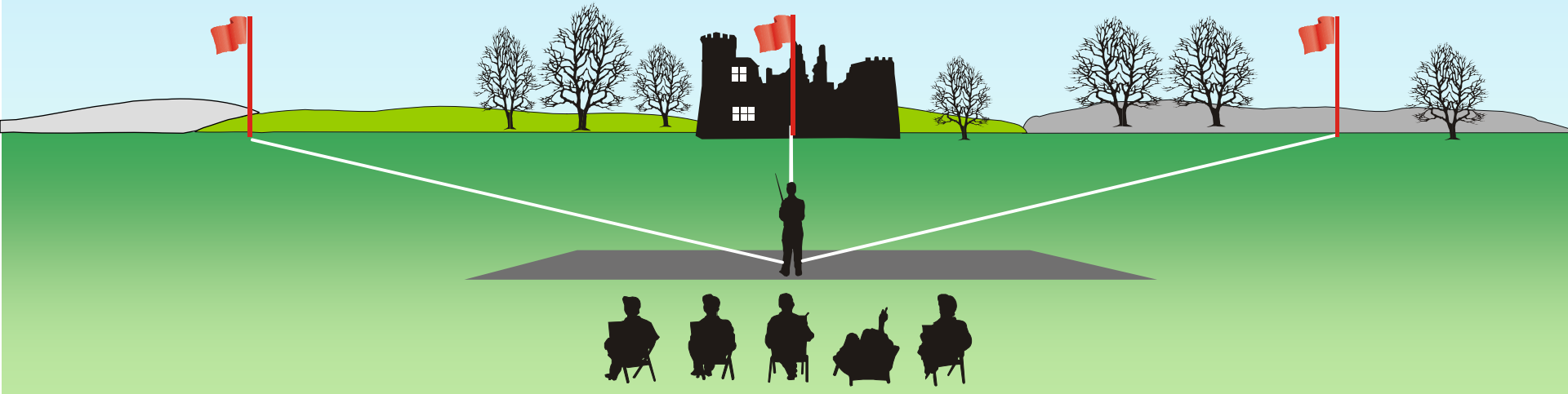




N-13.01: Half Clover Leaf

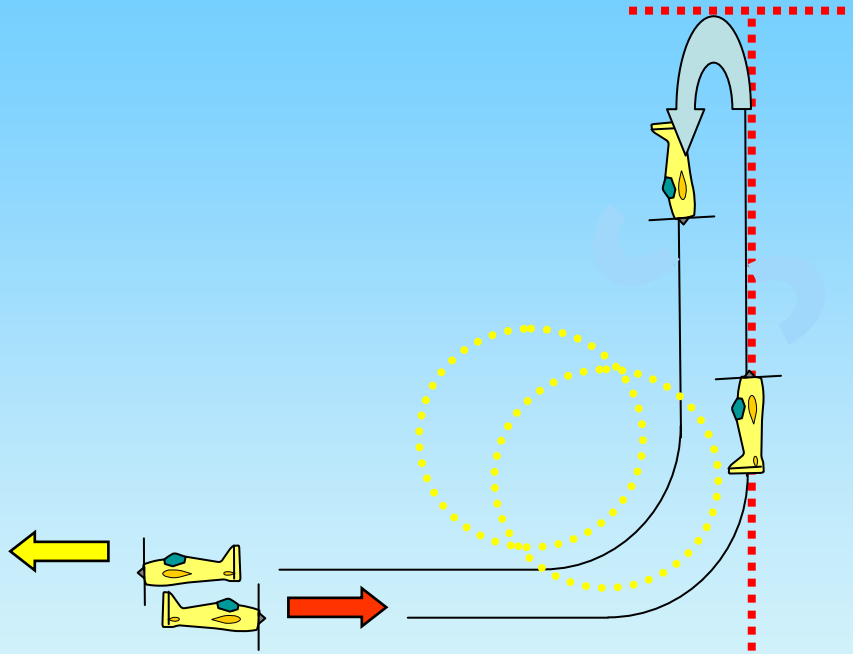
All radii are equal.

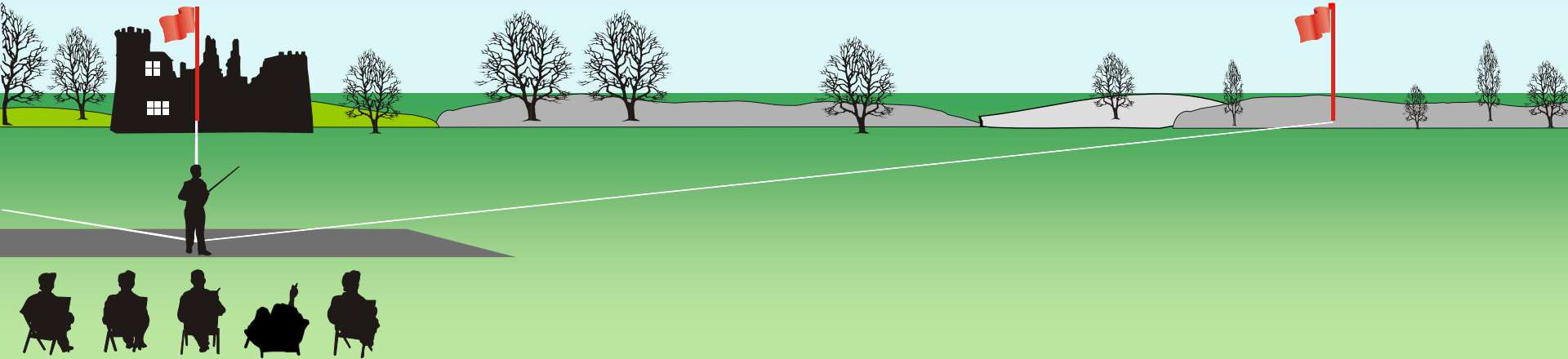




N-13.02: Stall Turn. From upright, pull through a ¼ loop into a vertical upline, perform a stall turn into a vertical downline, pull through a 1/4 loop, exit upright.

All radii are equal.

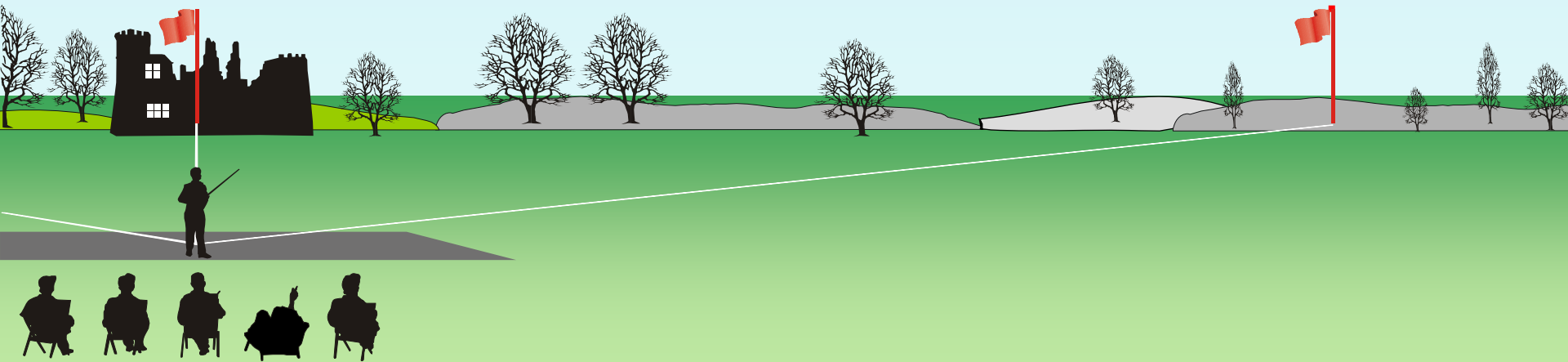




N-13.02: Stall Turn

Pivot on CG ⊕

Two wing spans or more – **Zero Points!**



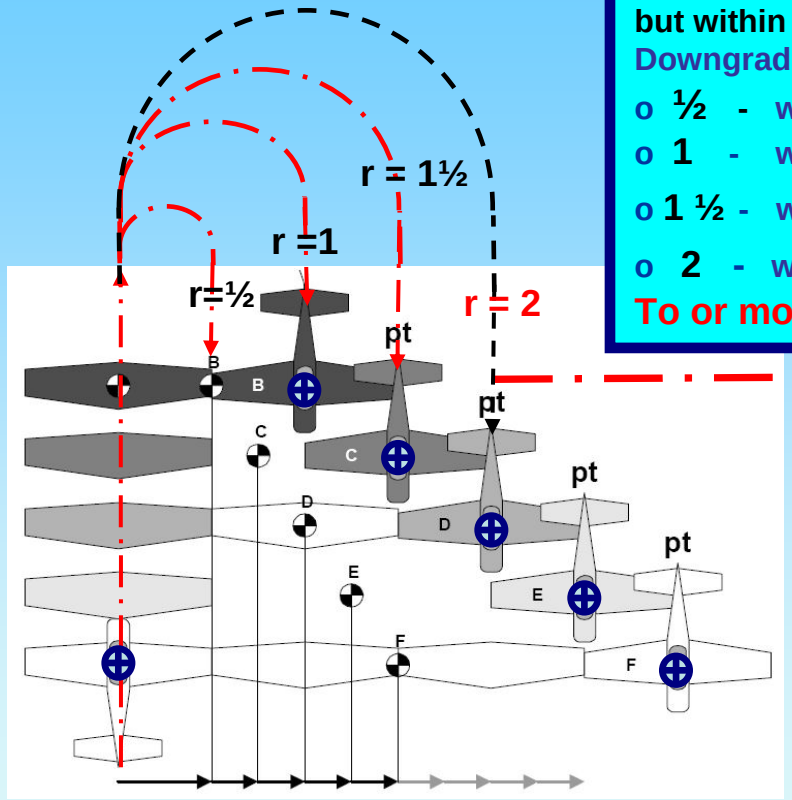
N-13.02: Stall Turn

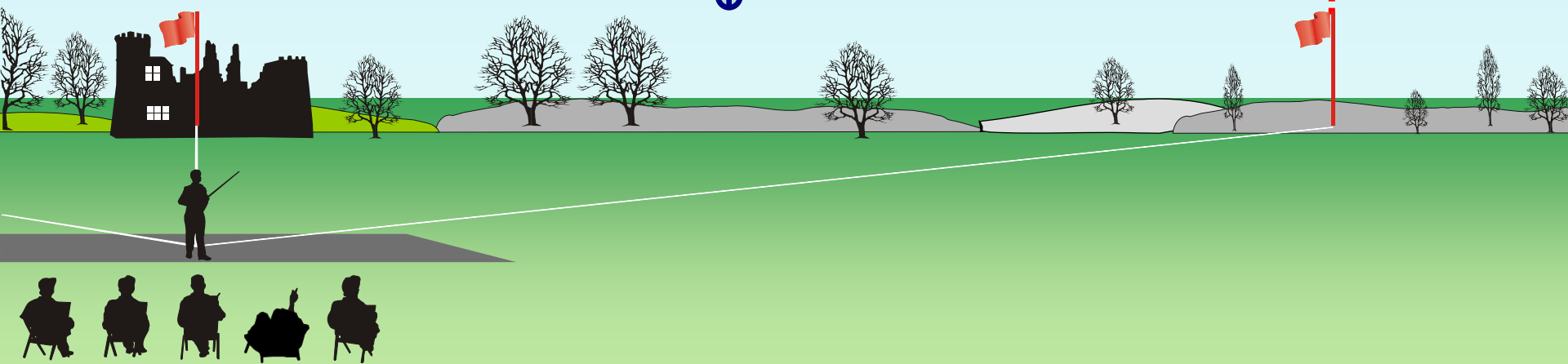
IF the model aircraft does not pivot on the CG, ⊕ but within a radius of.

Downgraded to Points:

- o ½ - wingspans = - 1 Points!
- o 1 - wingspans = - 2 ... - 3 Points!
- o 1 ½ - wingspans = - 4 ... - 5 Points!
- o 2 - wingspans = **Zero Points!**

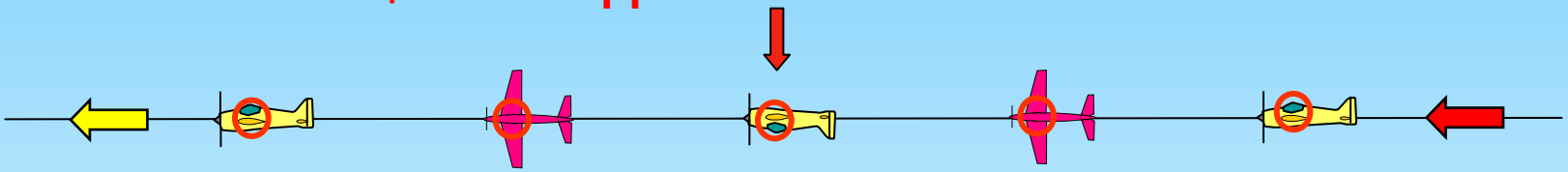
To or more wingspans = 0 Points!



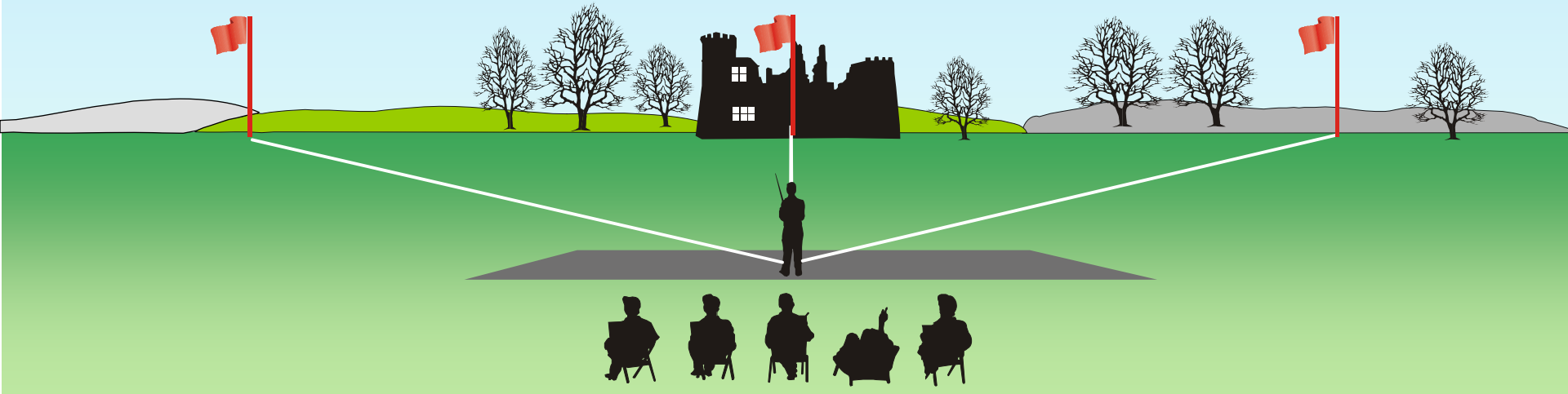


N-13.03: Roll Combination with consecutive two ¼ rolls, two ¼ rolls in opposite direction.
From upright, perform consecutively two ¼ rolls, ¼ rolls in opposite direction, exit upright

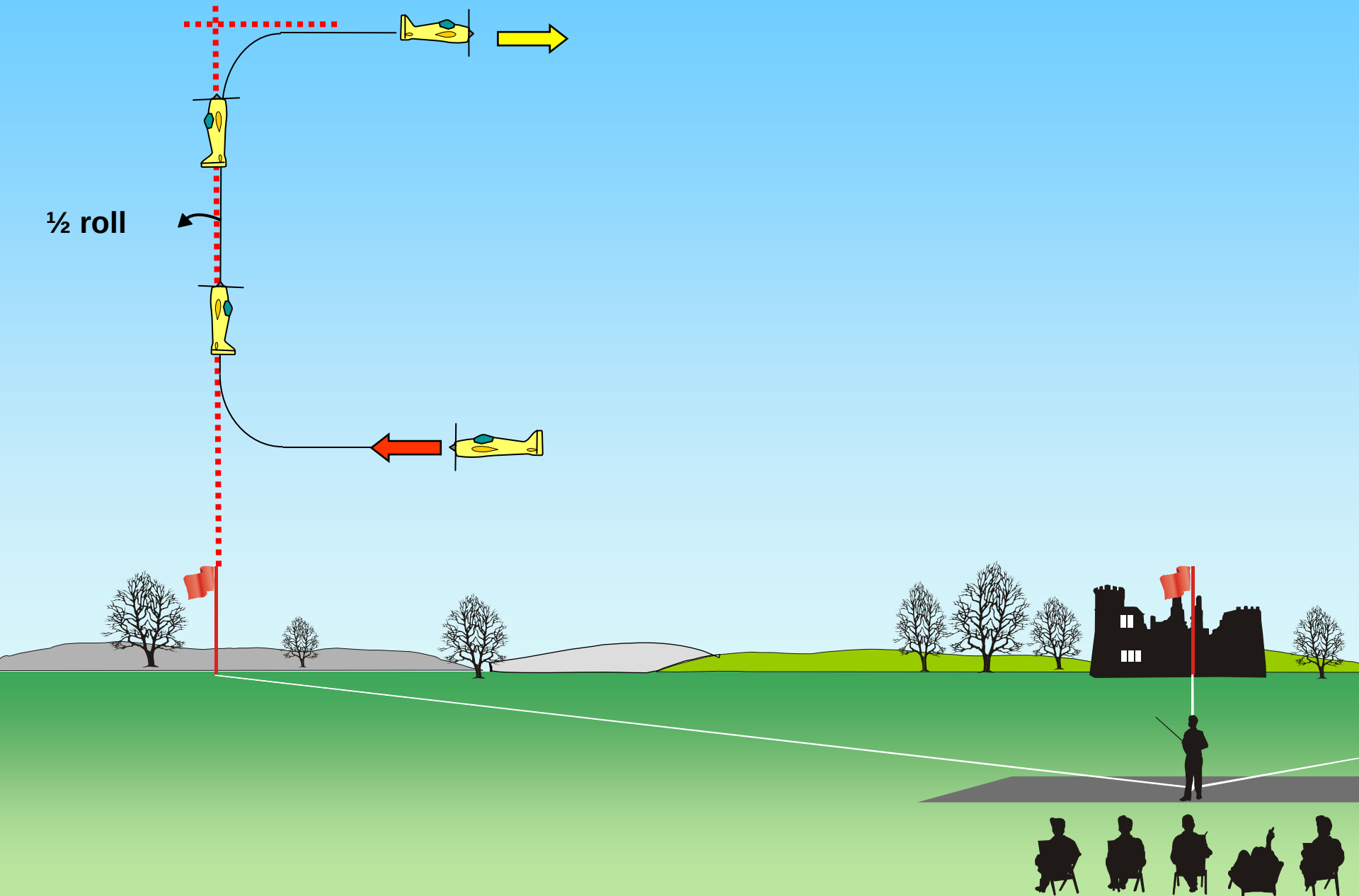
The 2 x two ¼ rolls in opposite direction must have the same roll rate.



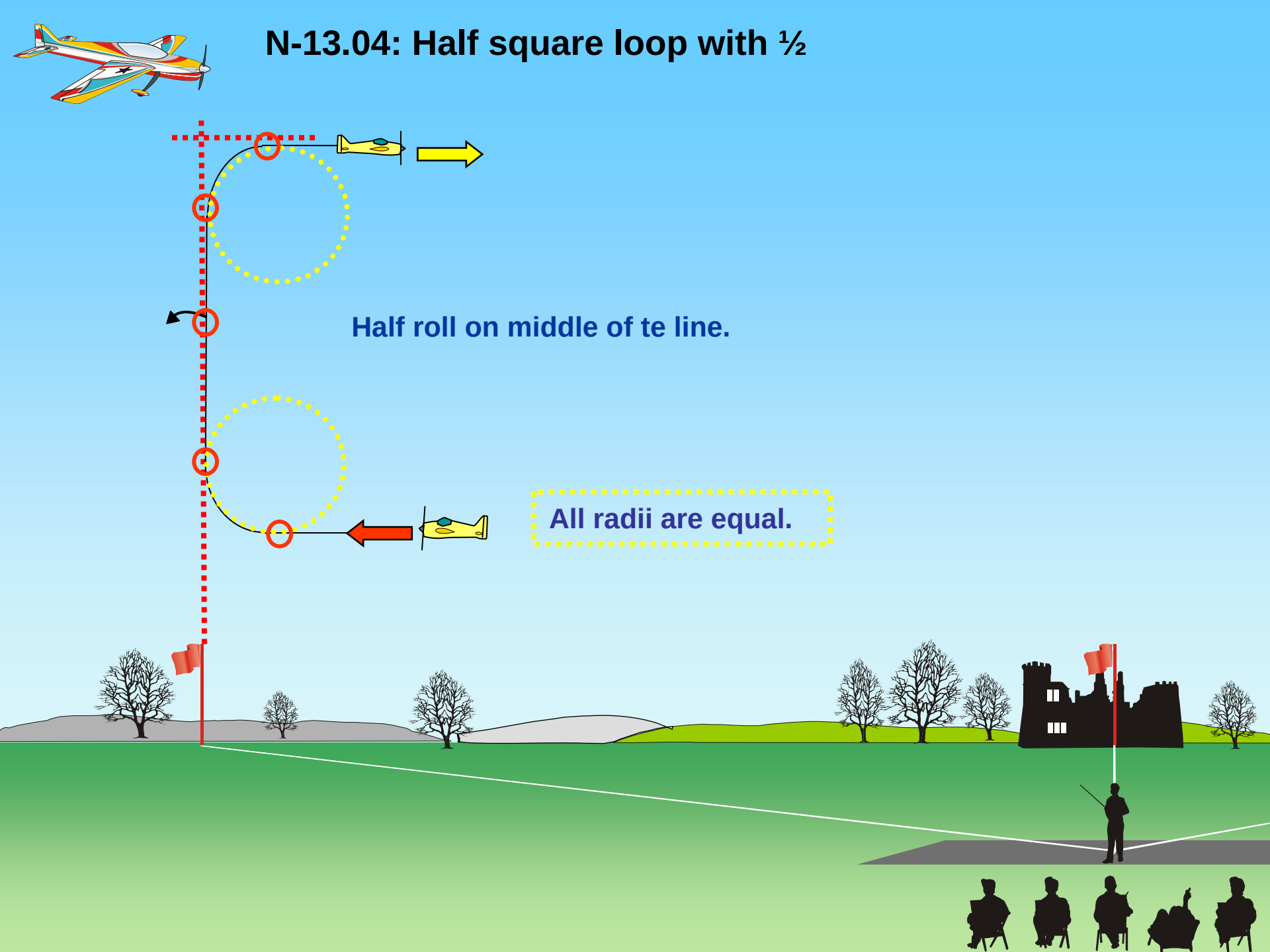
Lines between part rolls must be short and of equal length.



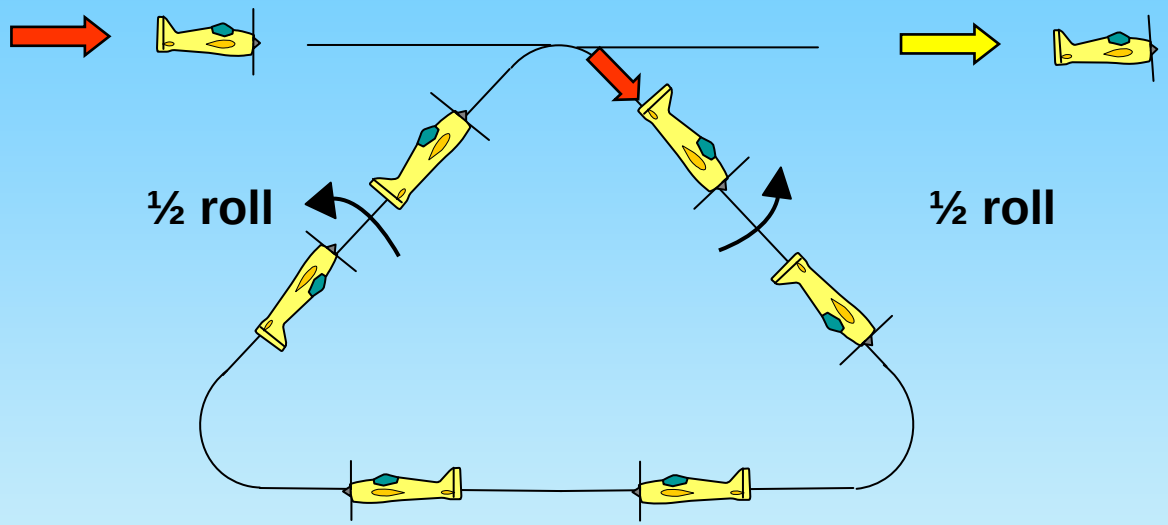
N-13.04: Half Square loop with ½ roll

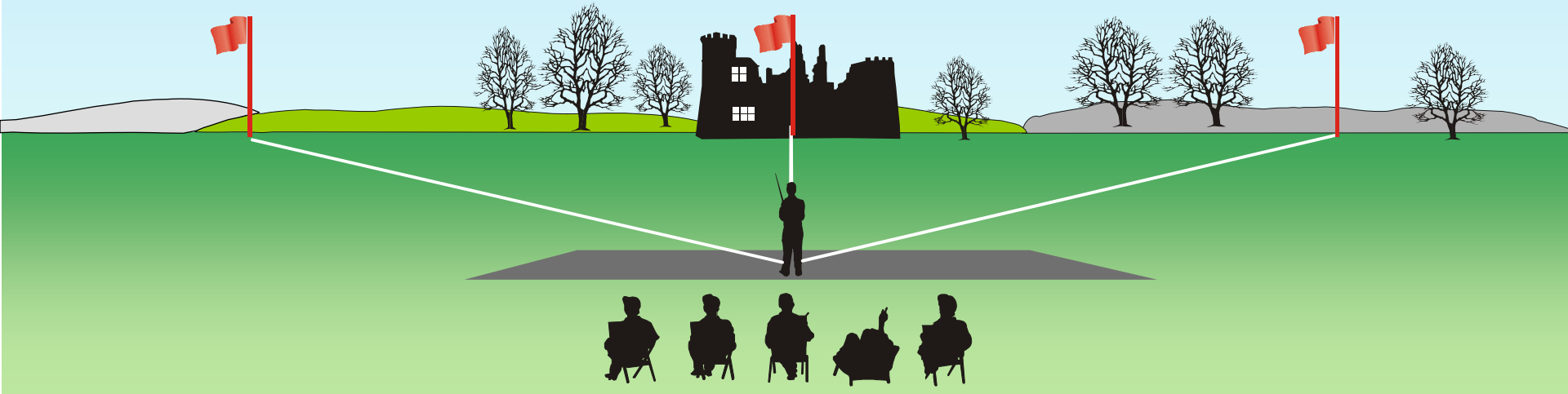


N-13.04: Half square loop with ½

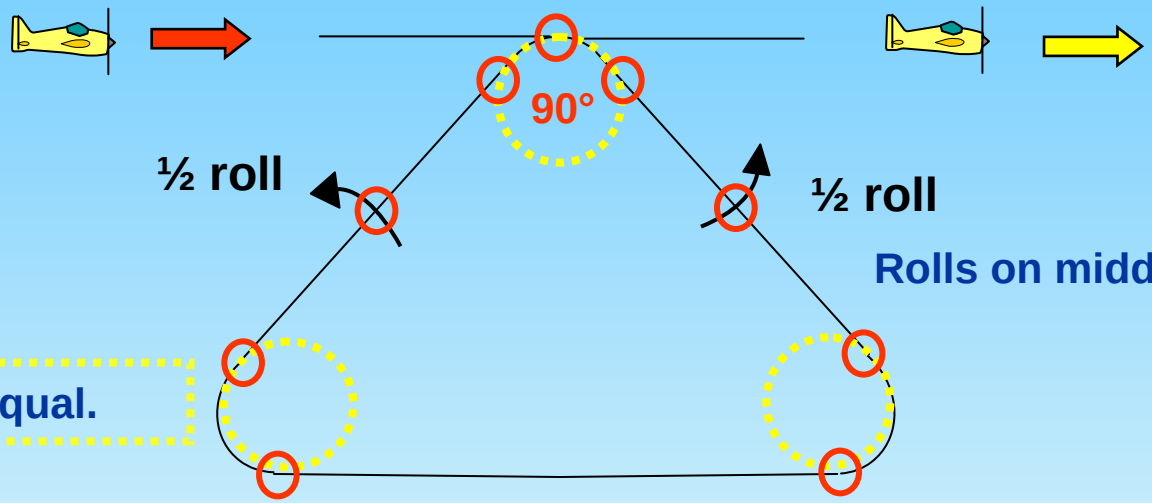


N-13.05: Triangle with two ½ rolls. From upright, push through a 1/8 loop into a 45° downline, perform ½ roll, pull through a 3/8 loop into a horizontal line, pull through a 3/8 loop into a 45° upline, perform ½ roll, push through a 1/8 loop, exit upright.



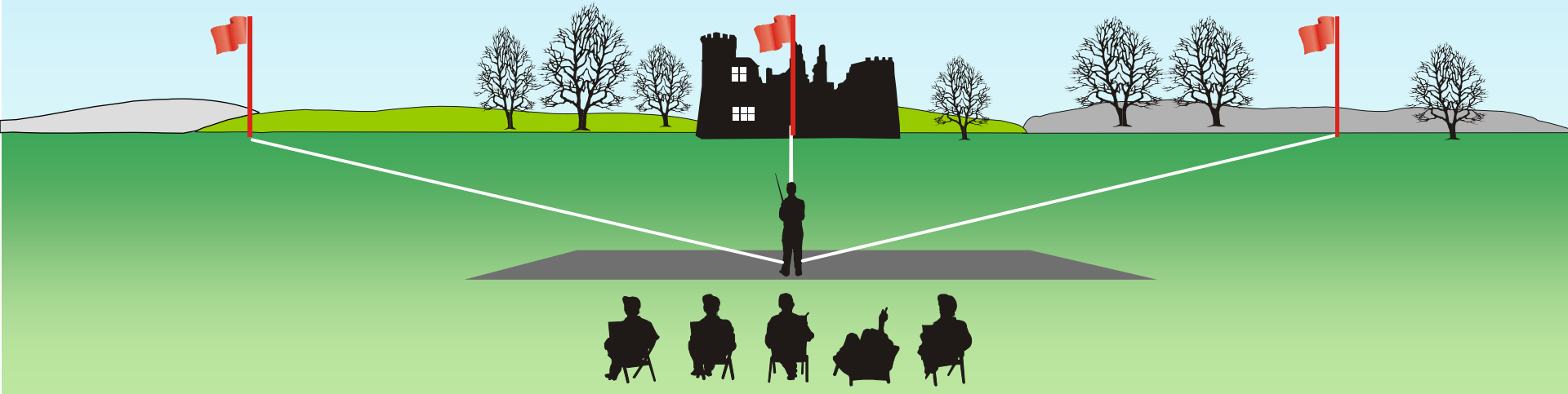


N-13.05: Triangle with two ½ rolls. From upright, push through a 1/8 loop into a 45° downline, perform ½ roll, pull through a 3/8 loop into a horizontal line, pull through a 3/8 loop into a 45° upline, perform ½ roll, push through a 1/8 loop, exit upright.



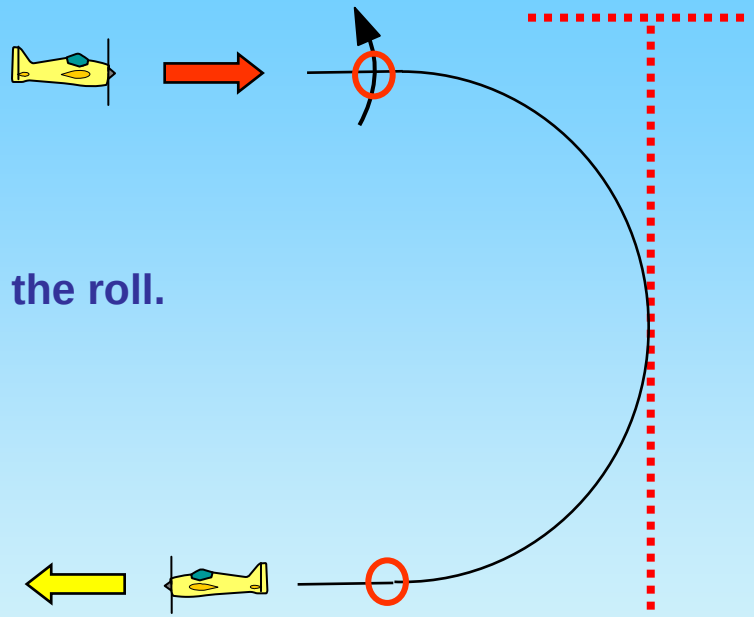
Rolls on middle of the lines.

All radii are equal.

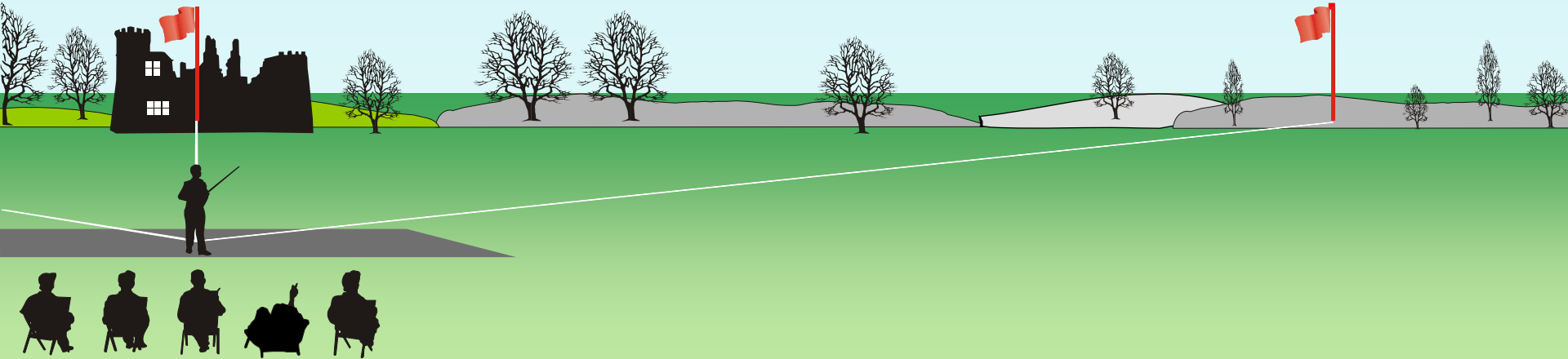


N-13.06: Split S with ½ roll

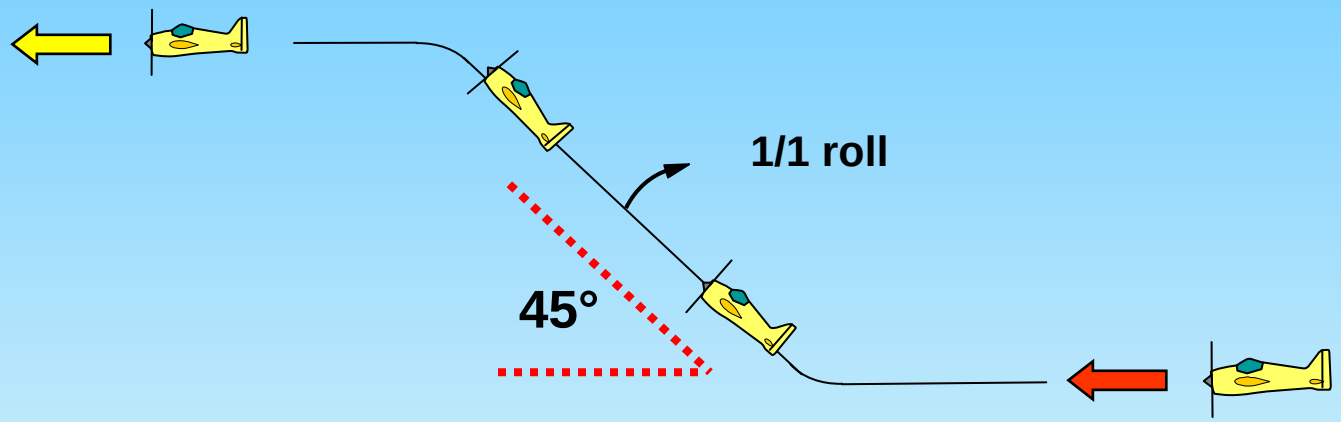
½ roll

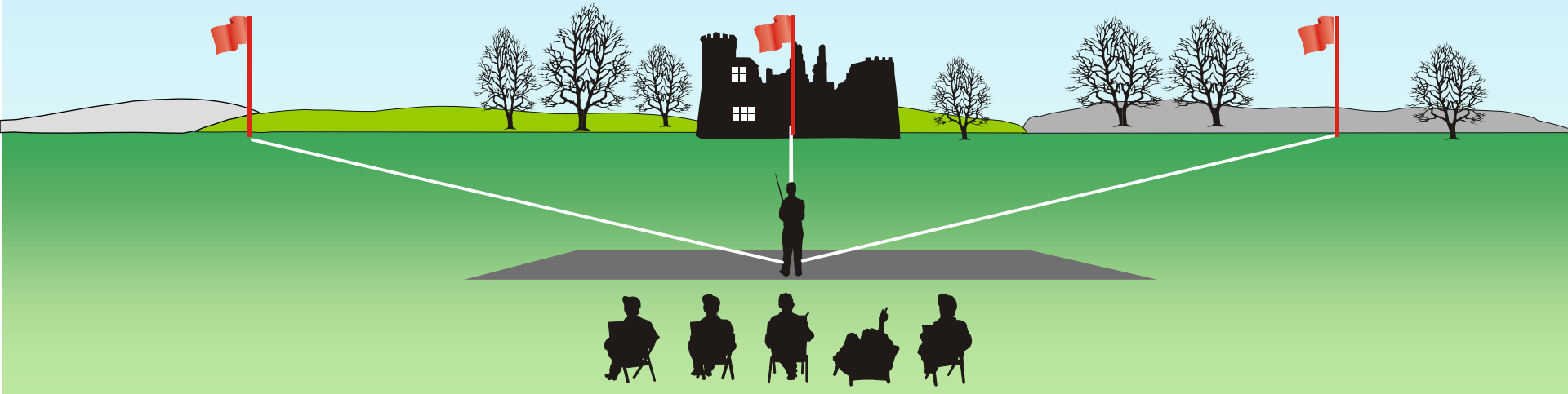


Half loop immediately after the roll.



N-13.07: 45° Upline with roll





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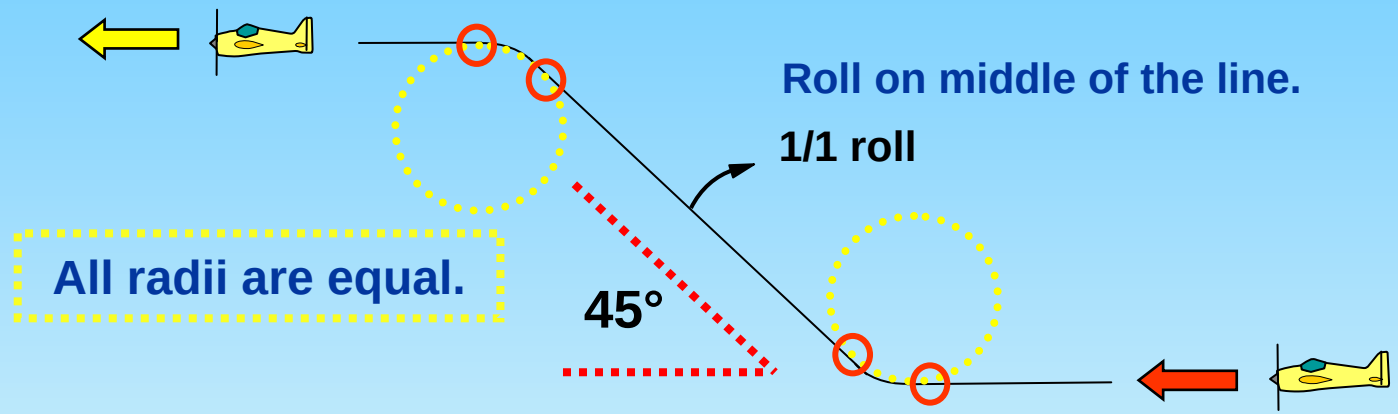
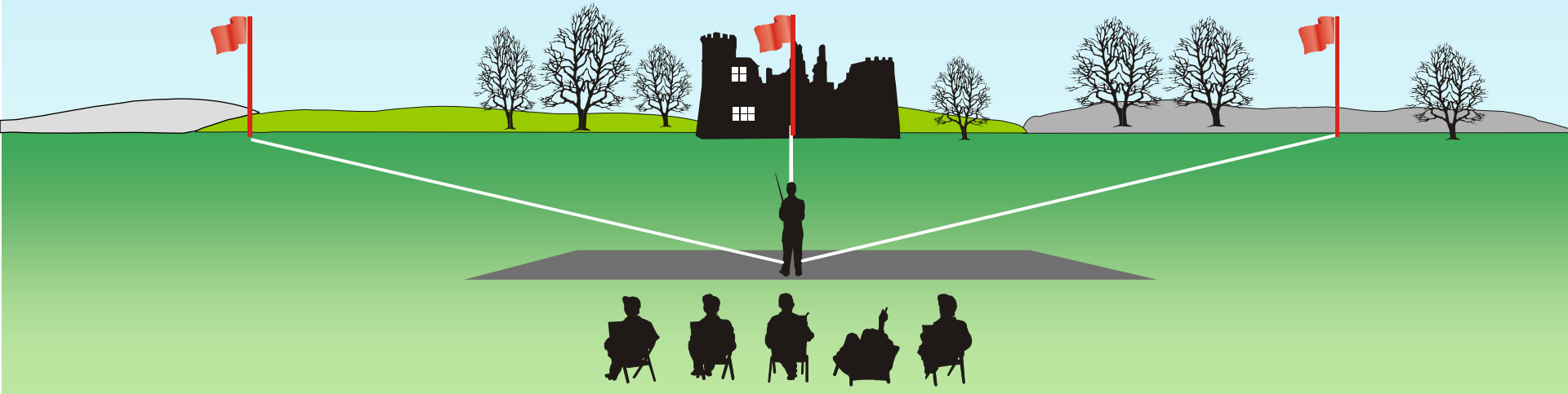
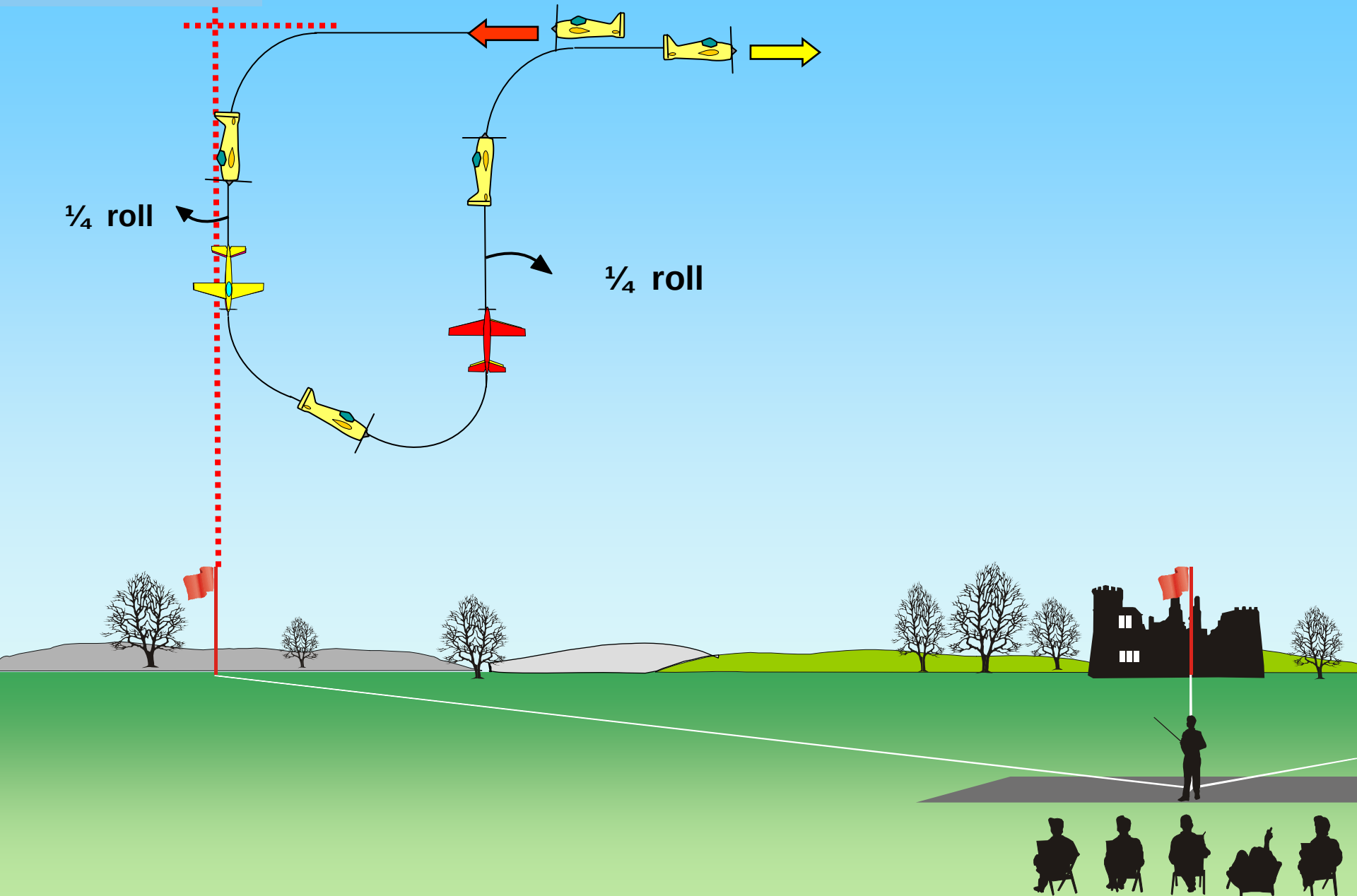
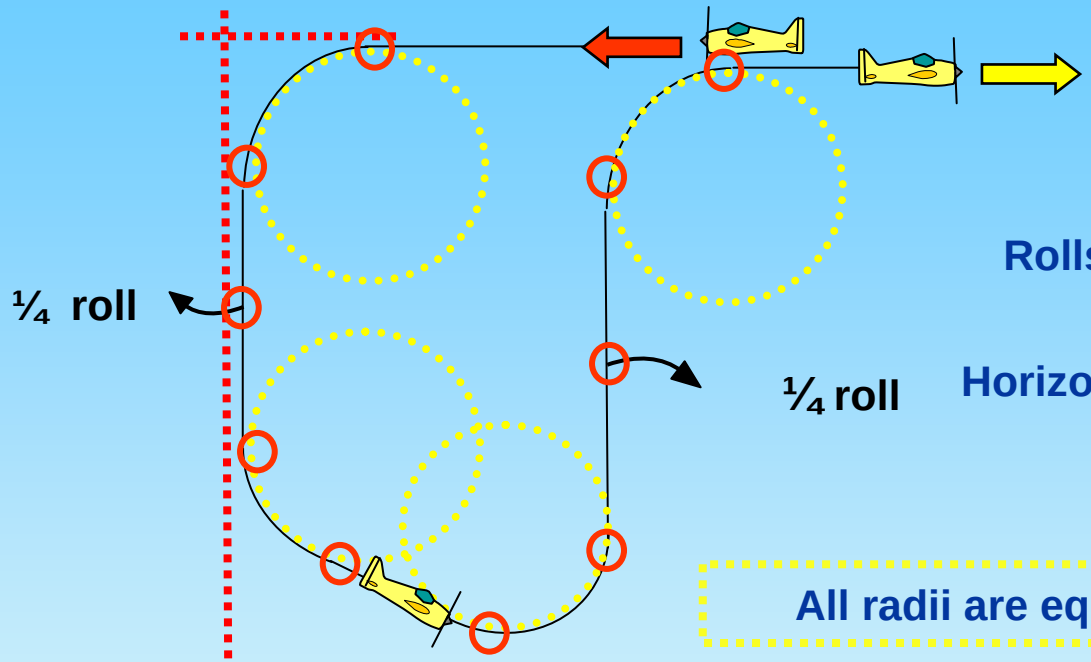




N-13.08: Reverse Top Hat with ¼ roll down, ¼ roll up. From upright, push through a ¼ loop into a vertical downline, perform a ¼ roll, pull through a ¼ loop into a horizontal line, pull through a 1/4 loop into a vertical upline, perform a ¼ roll, push through a ¼ loop, exit upright.



N-13.08: Reverse Top Hat with ¼ roll down, ¼ roll up



¼ roll

¼ roll

Rolls in middle of the lines.

Horizontal cross box must be upright.

All radii are equal.

N-13.9: Spin with 3 turns.

From upright, perform a upright spin with 3 turns, perform a vertical downline, pull through a ¼ loop, exit upright.

Nose-up attitude increases

Stall…. nose and wing drops… rotation starts

Level entry

Nose-up attitude

Spin with 3 turns

Model aircraft spins around CG ⊕

Snap entry - zero points!

Forced entry: downgrade.

Spiral dive - 0 points!

STOP, with no over- or under-spin

Up to 15⁰ …minus 1!

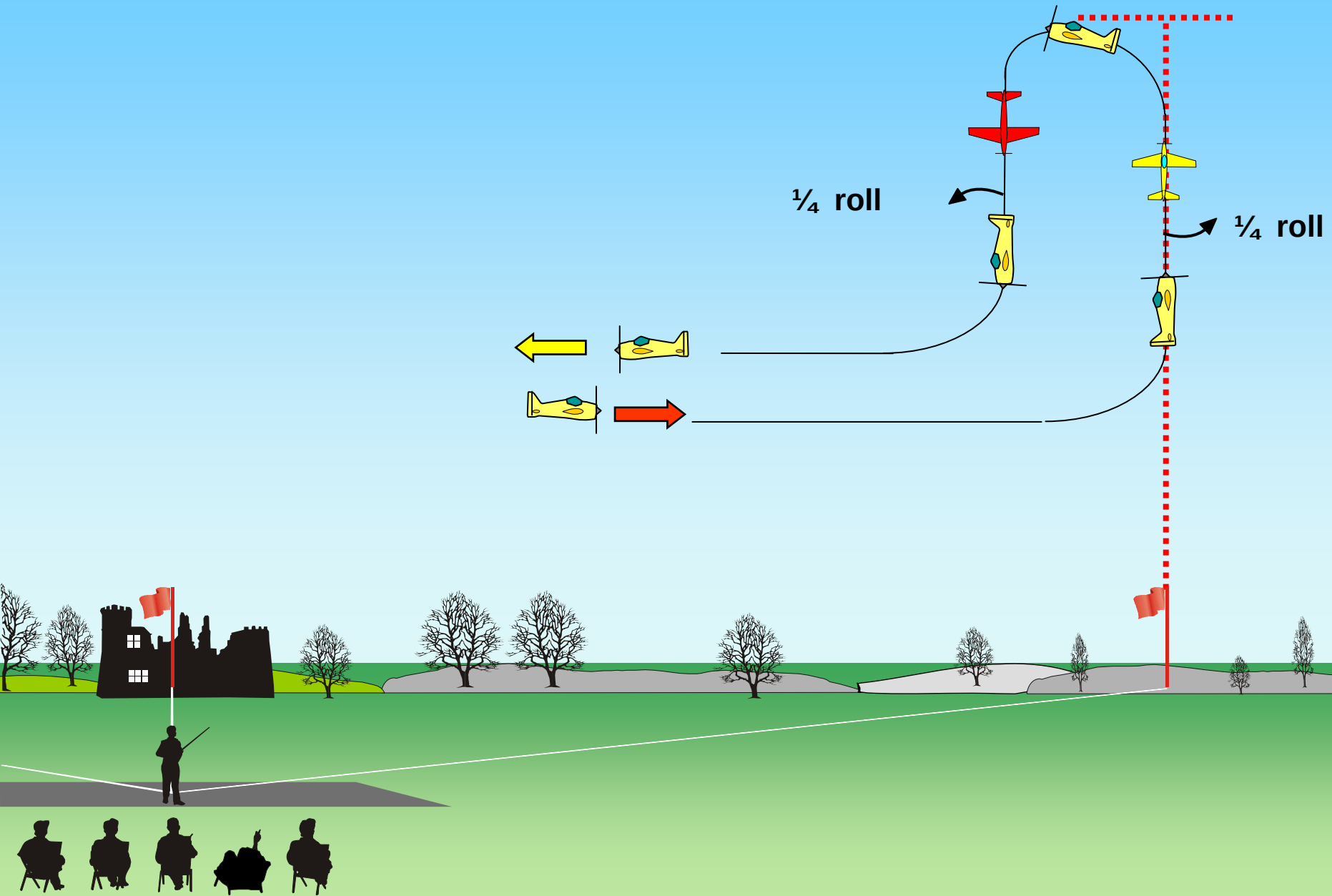
15⁰ to 30⁰ …minus 2!

30⁰ to 45⁰ …minus 3!

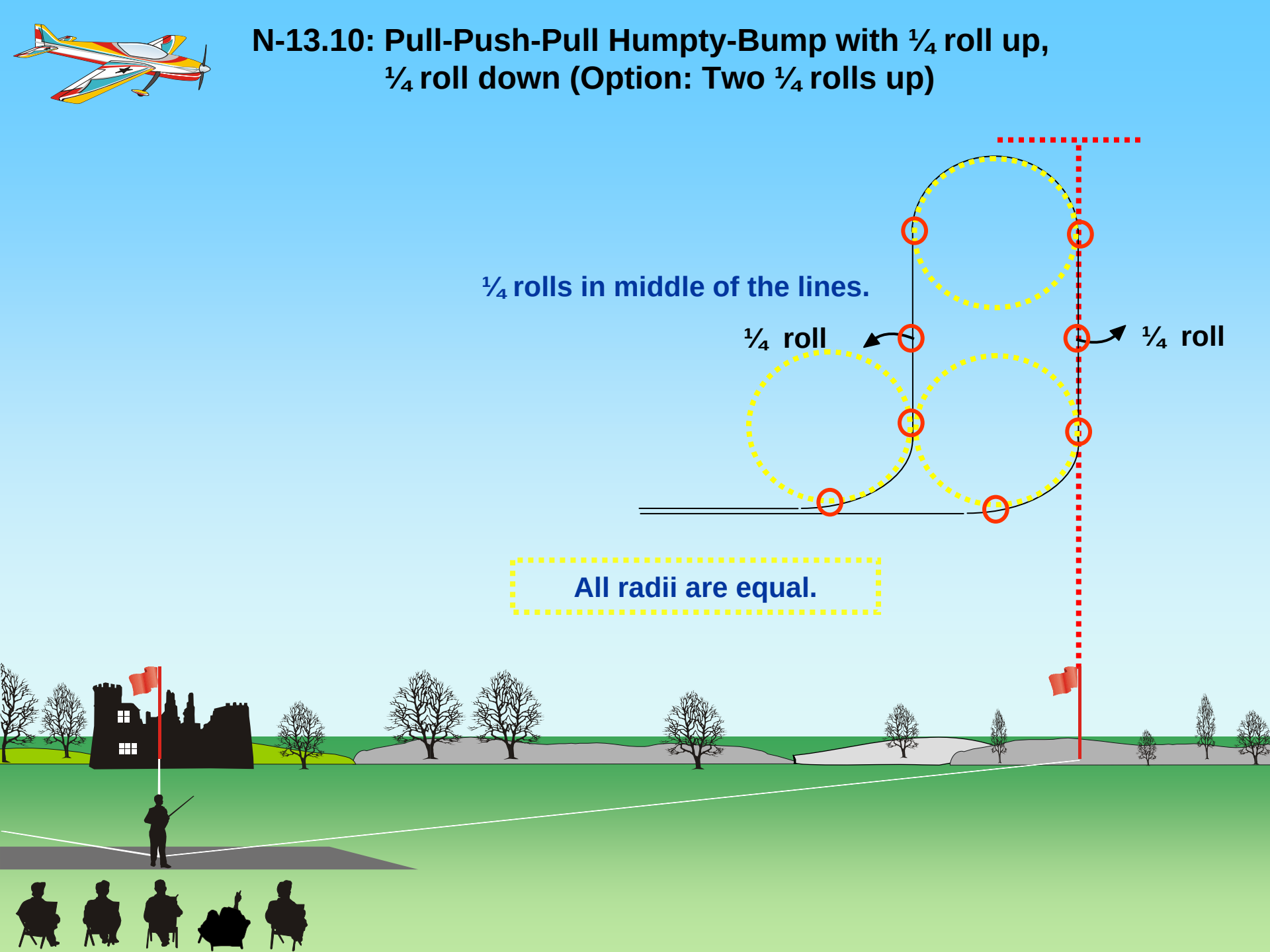
90⁰ overspin ...minus 6!

Vertical downline after spin

N-13.10: Pull-Push-Pull Humpty Bump with ¼ roll up, ¼ roll down (Option : Consecutive two ¼ rolls up)



N-13.10: Pull-Push-Pull Humpty-Bump with ¼ roll up, ¼ roll down (Option: Two ¼ rolls up)



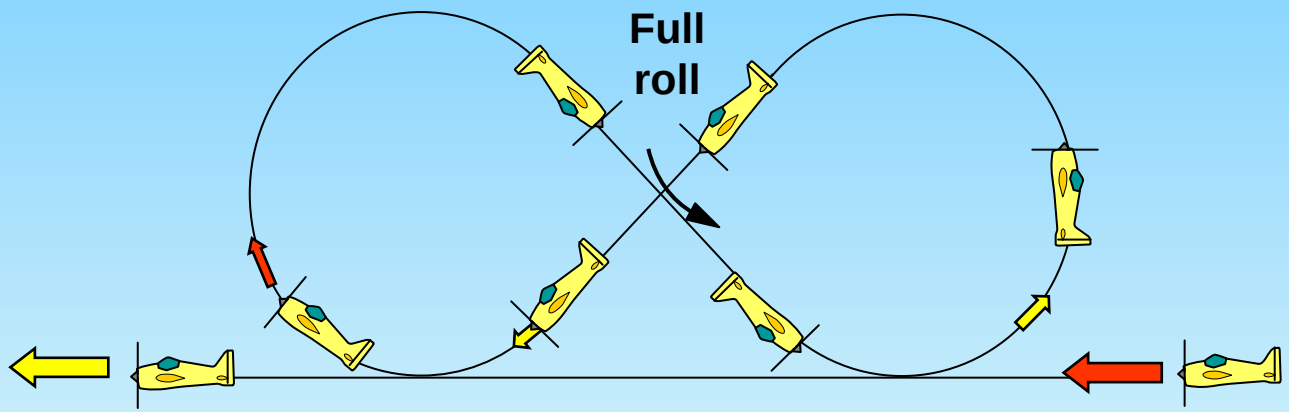
N-13.10: Pull-Push-Pull Humpty Bump with ¼ roll up, ¼ roll down

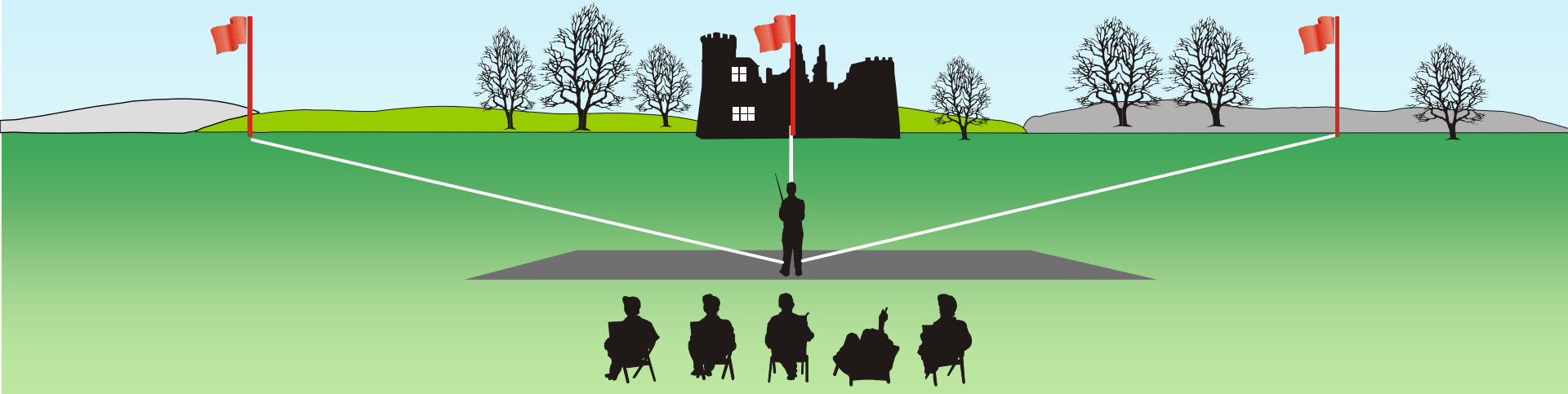
Option: From upright, pull through a ¼ loop into a vertical upline, perform two consecutive ¼ rolls, push through a 1/2 loop into a vertical downline, pull through a ¼ loop, exit upright.

Option

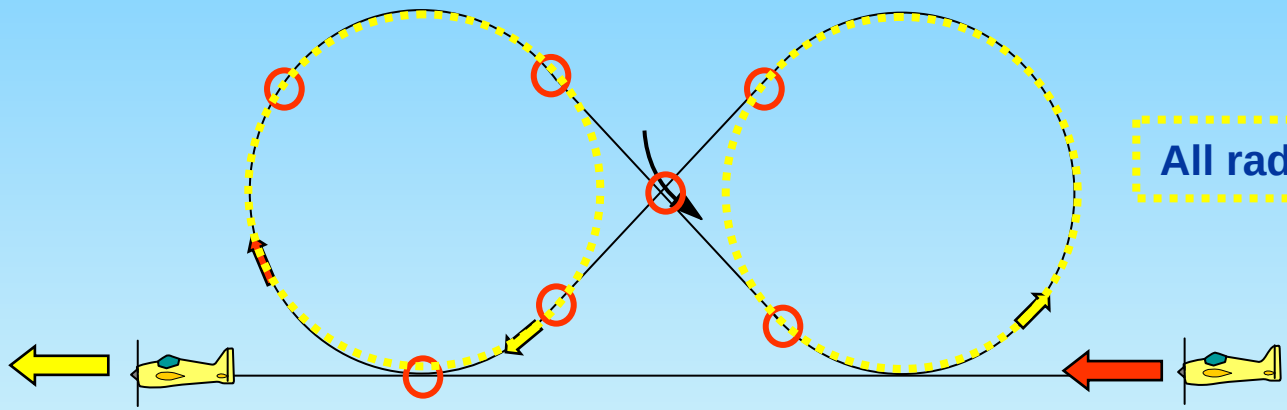
$^{2}/_{4}$ roll

N-13.11: Cuban 8 with roll. From upright, pull through a 5/8 loop into a 45° downline, push through a ¾ loop into another 45° downline, perform a roll, pull through a 1/8 loop, exit upright.

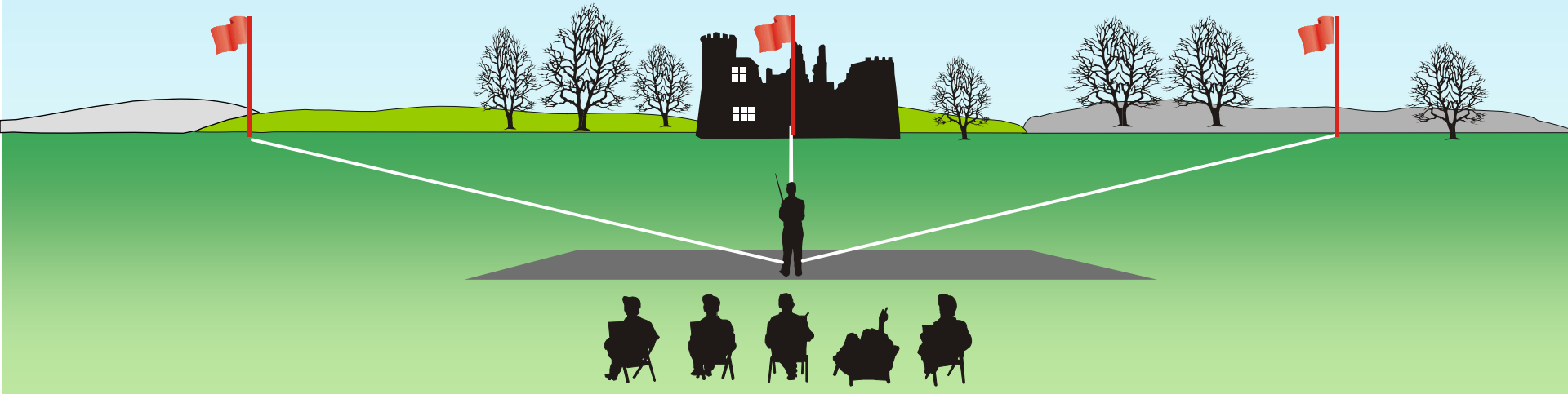




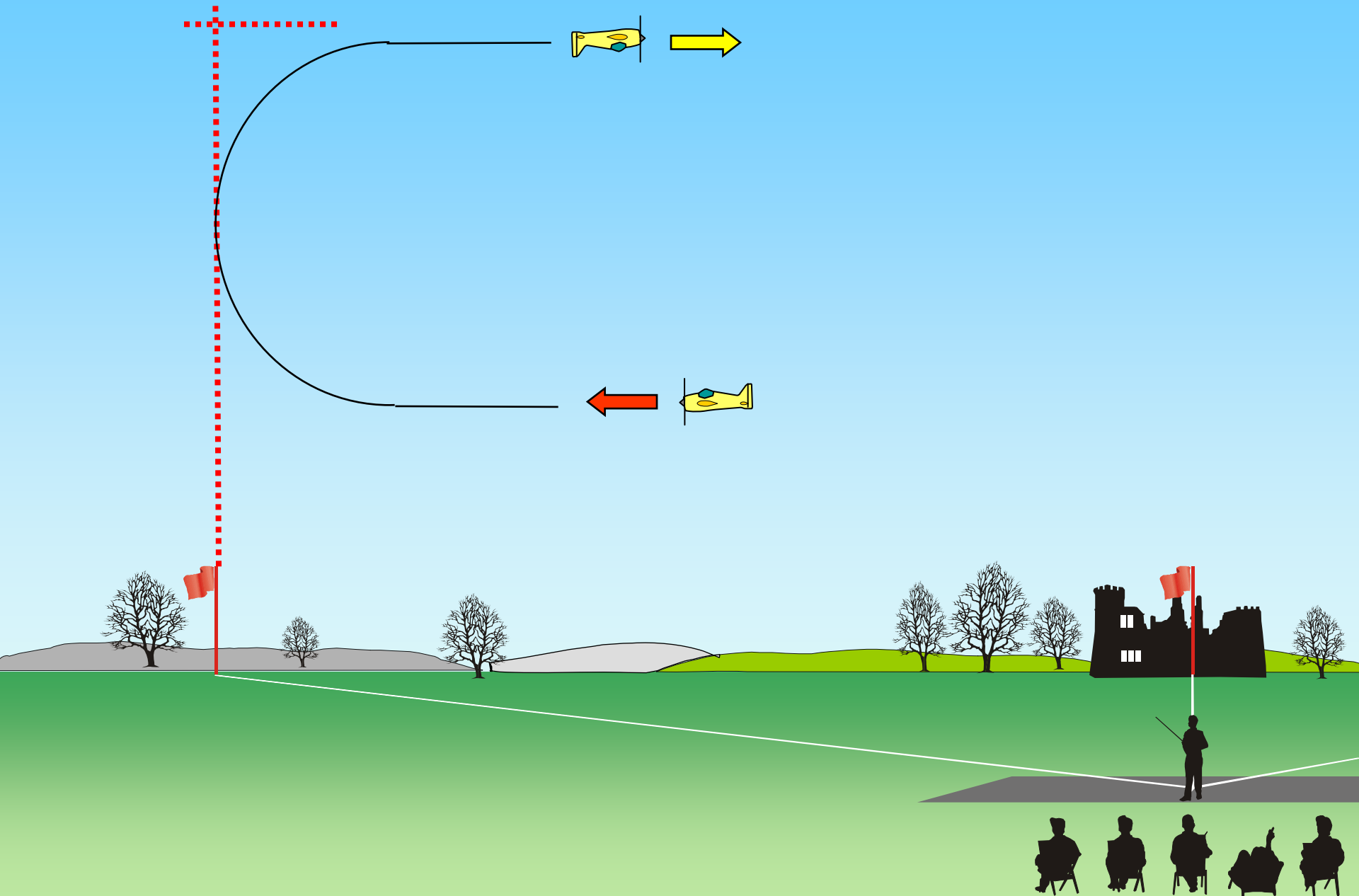
N-13.11: Cuban 8 with roll. From upright, pull through a 5/8 loop into a 45° downline, push through a ¾ loop into another 45° downline, perform a roll, pull through a 1/8 loop, exit upright.



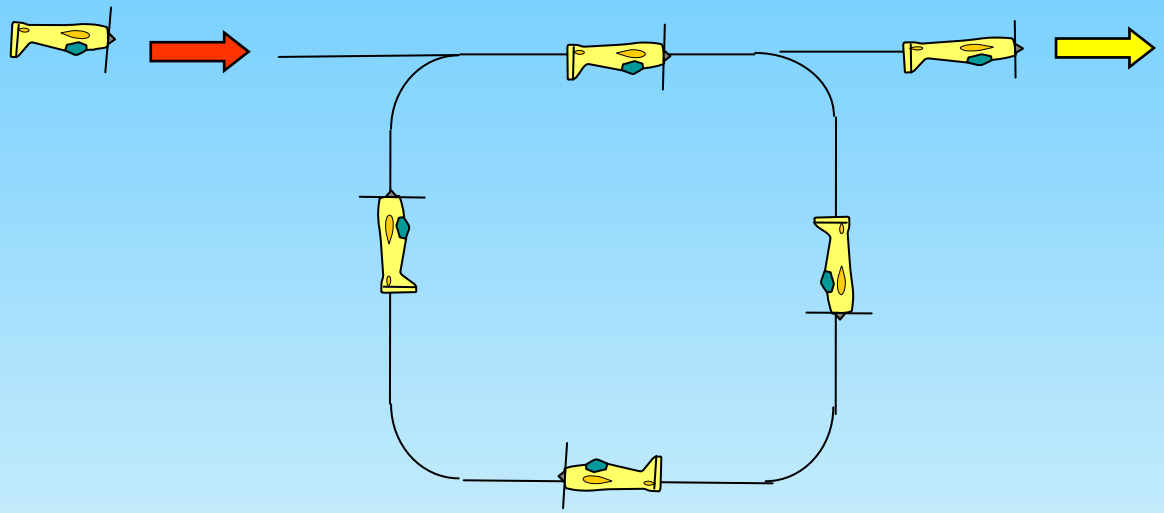
All radii are equal.

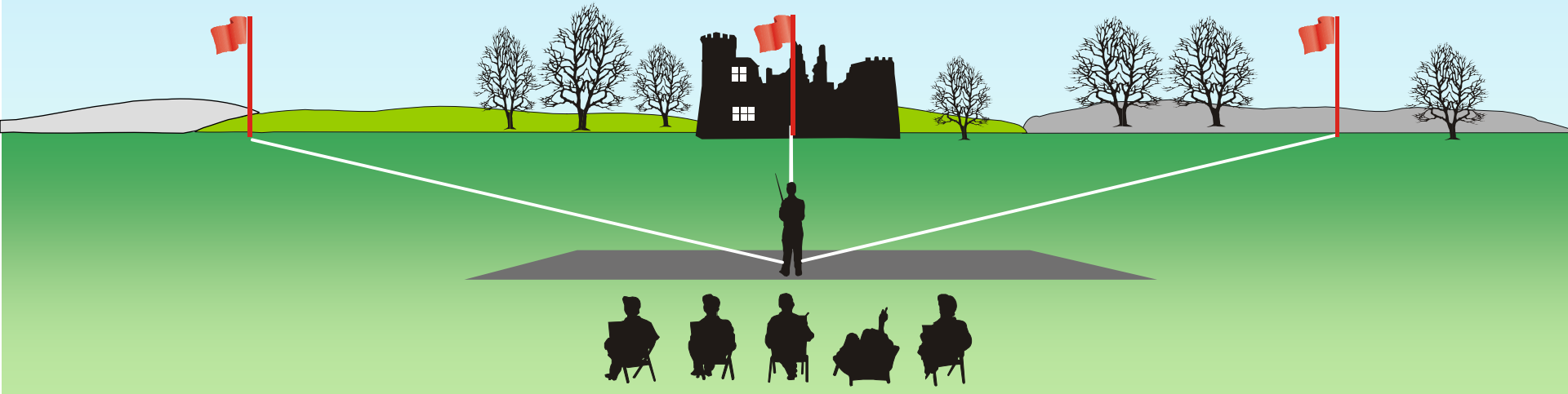


N-13.12: ½ Loop

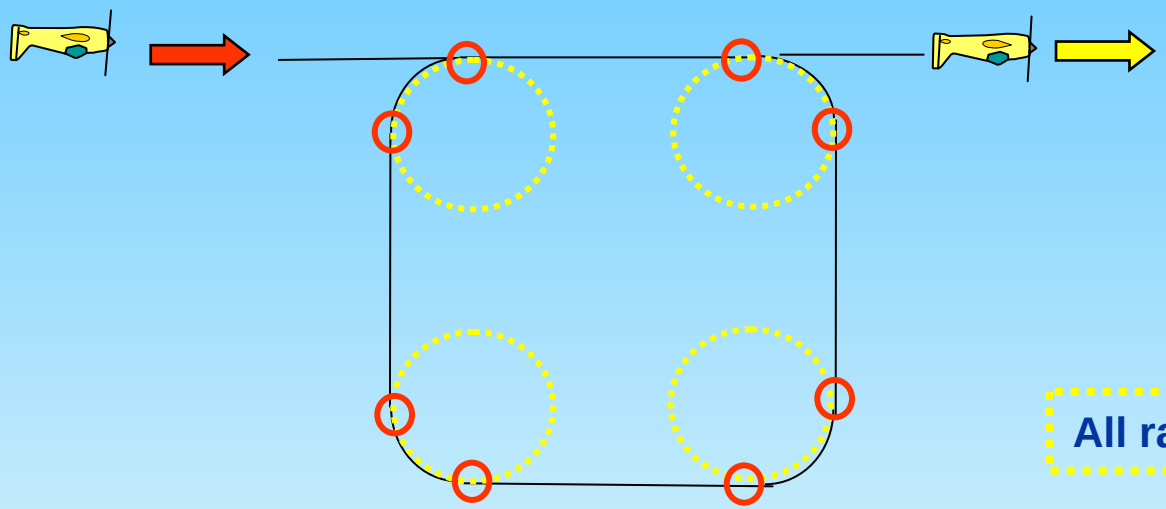


N-13.13: Square Loop. **From inverted, pull through a ¼ loop into a vertical downline, pull through a ¼ loop into a horizontal line, pull through a ¼ loop into a vertical upline, pull through a ¼ loop into a horizontal line, exit inverted.**

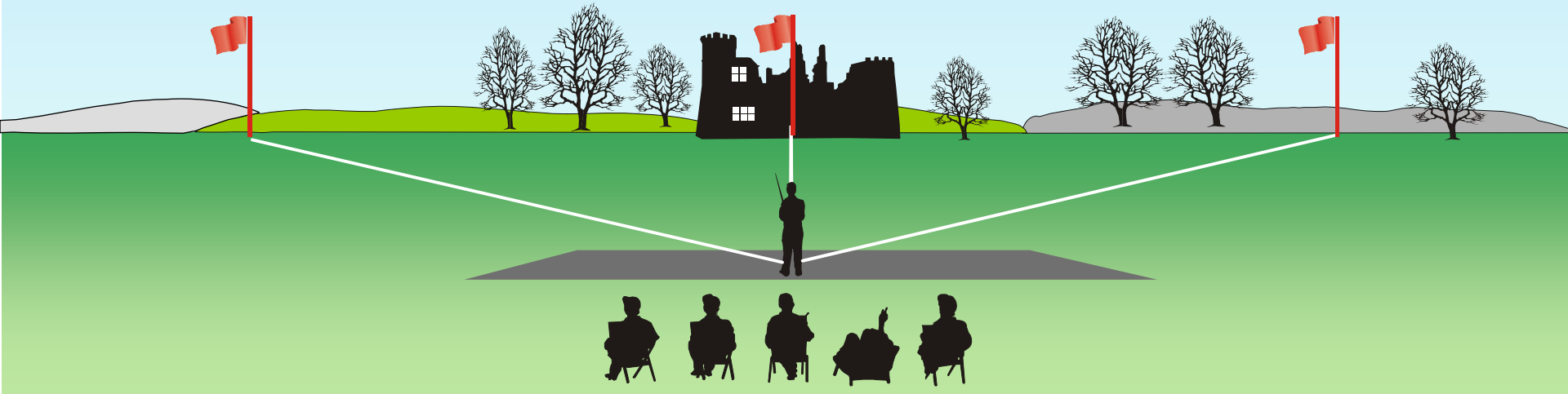




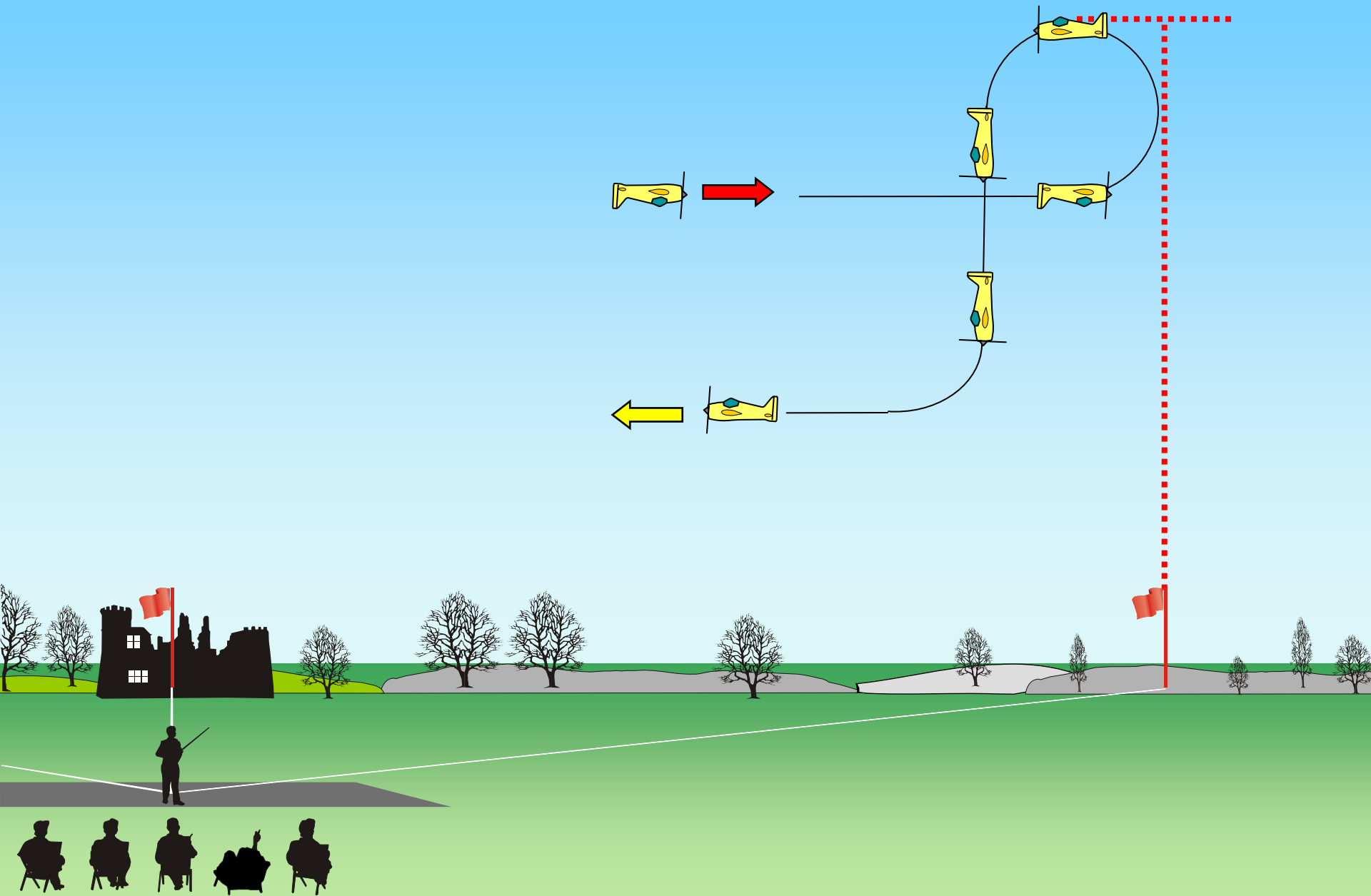
N-13.13: Square Loop. From inverted, pull through a ¼ loop into a vertical downline, pull through a ¼ loop into a horizontal line, pull through a ¼ loop into a vertical upline, pull through a ¼ loop into a horizontal line, exit inverted.



All radii are equal.

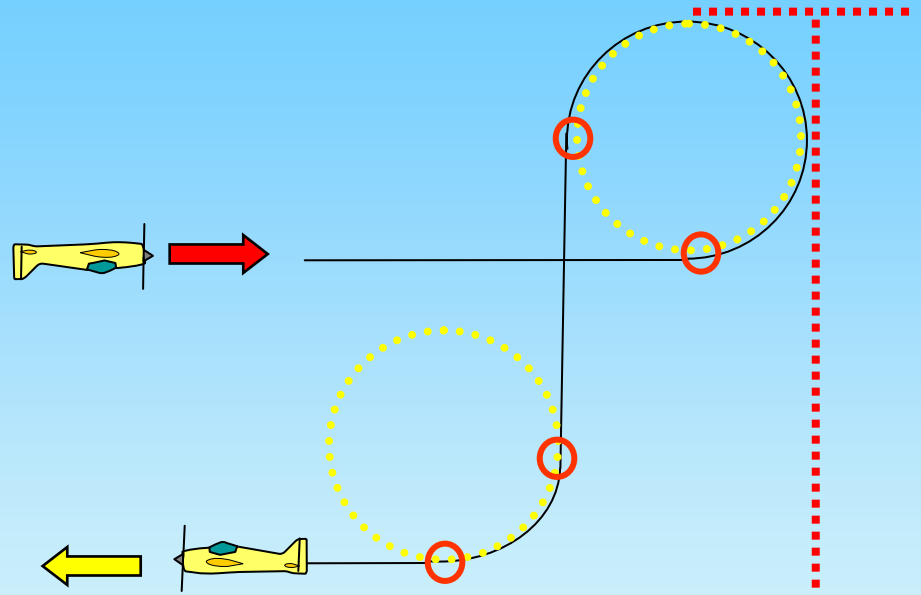


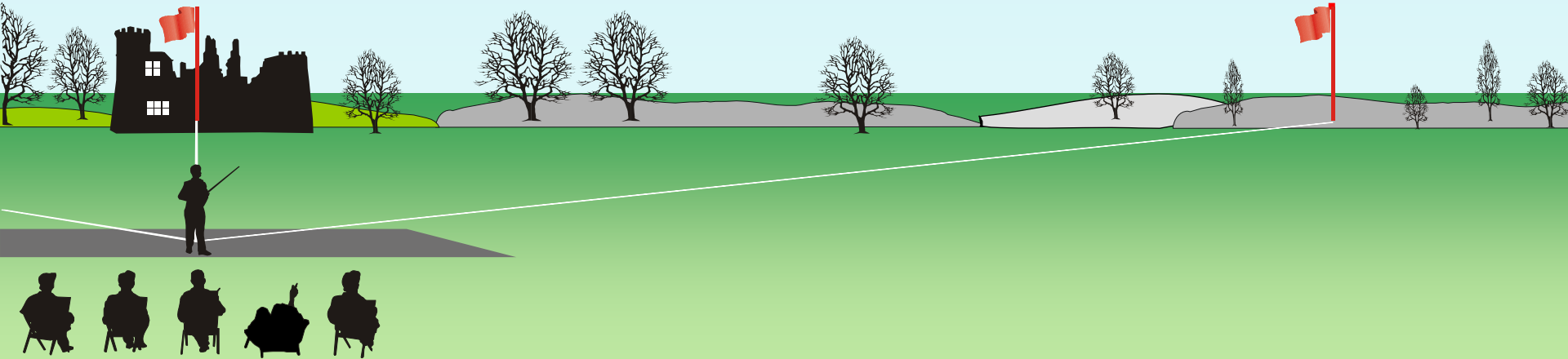
N-13.14: Figure 9, From inverted, push through a ¾ loop into a vertical downline, pull through a ¼ loop, exit upright.



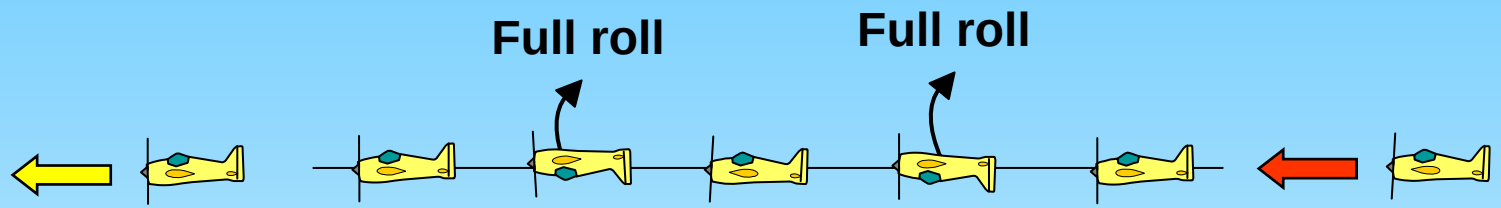
N-13.14: Figure 9, From inverted, push through a ¾ loop into a vertical downline, pull through a ¼ loop, exit upright.

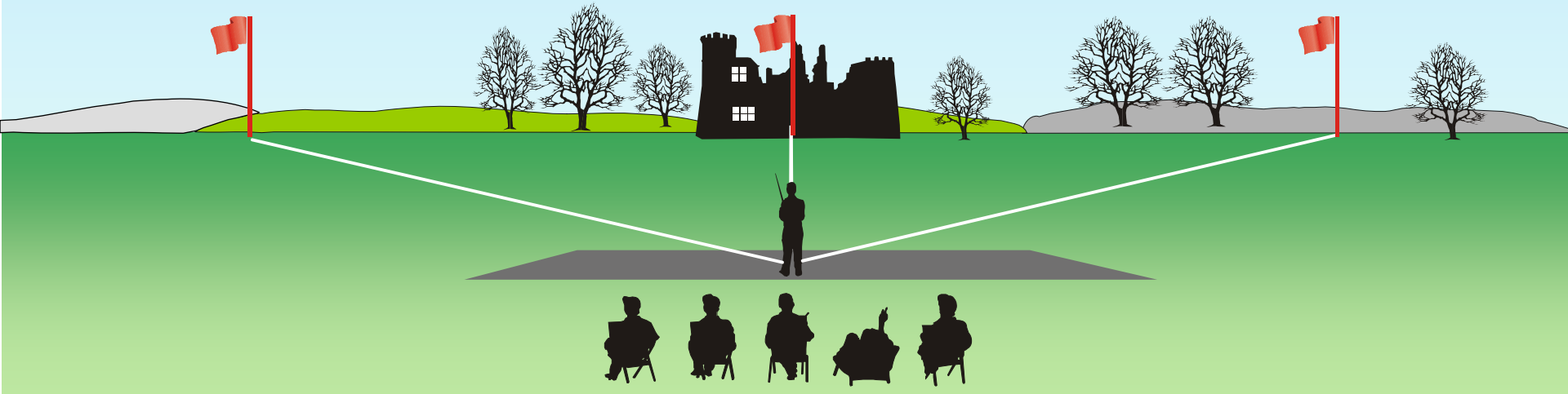
All radii are equal.





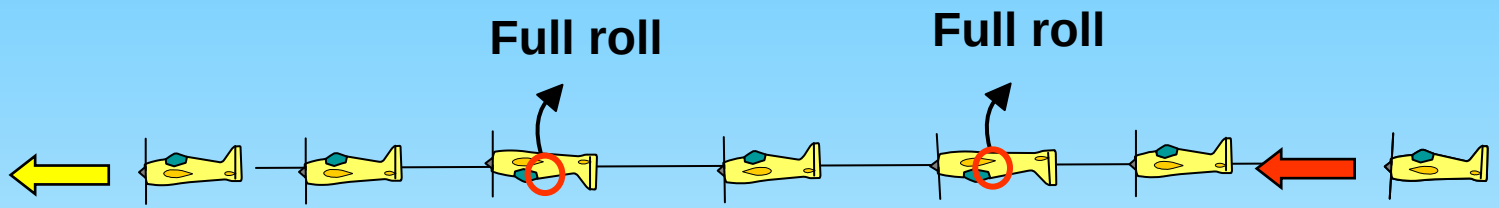
N-13.15: Roll Combination with two consecutive rolls.
From upright, perform consecutively a two rolls in the same direction, exit upright.





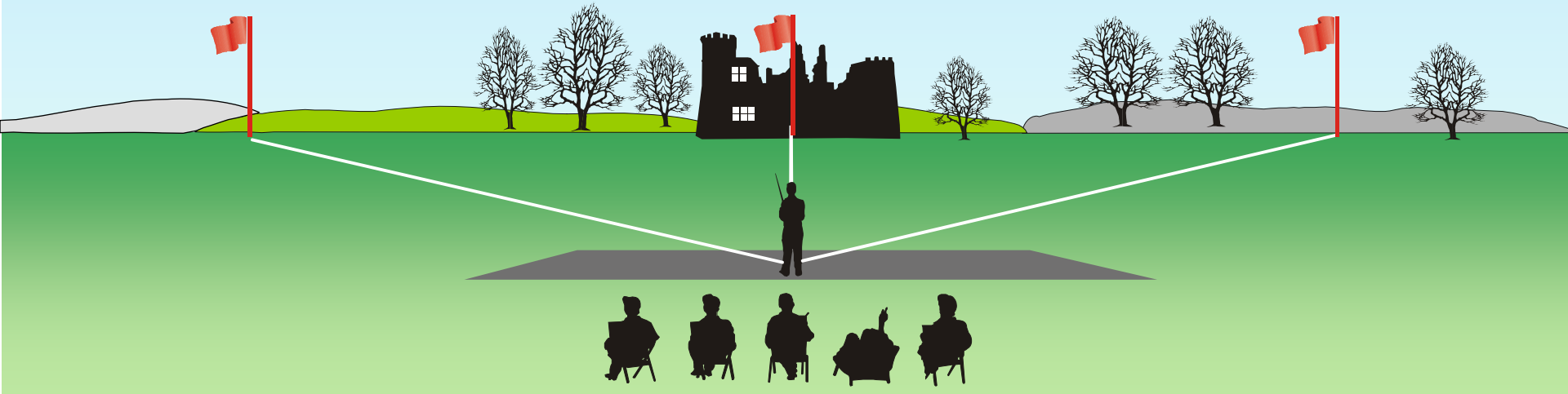
N-13.15: Roll Combination with two consecutive rolls.

From upright, perform consecutively a two rolls in the same direction, exit upright.

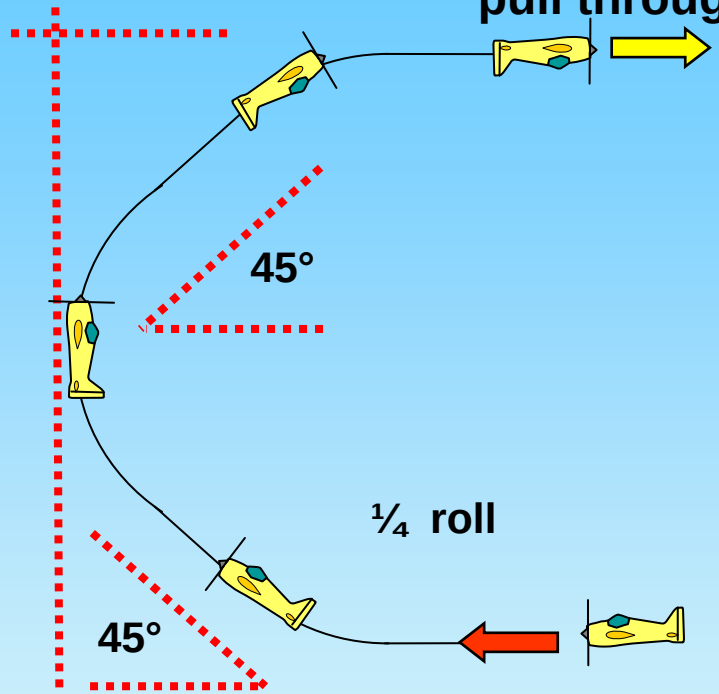


Part rolls must have the same roll rate.

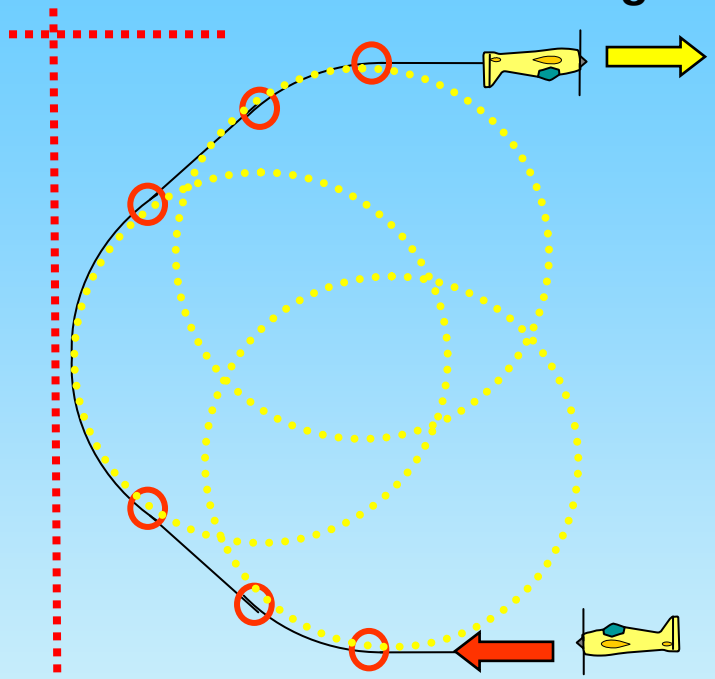
No lines between the rolls.



N-13.16: ½ Square Loop on Corner . From upright pull through a 1/8 loop into a 45° upline, pull through a ¼ loop into a 45° upline, pull through a 1/8 loop, exit inverted.

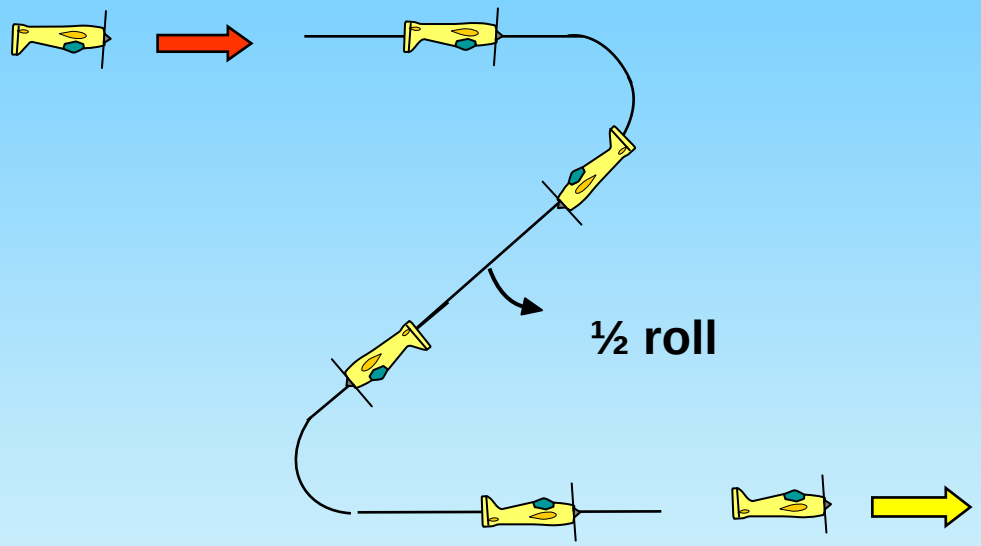


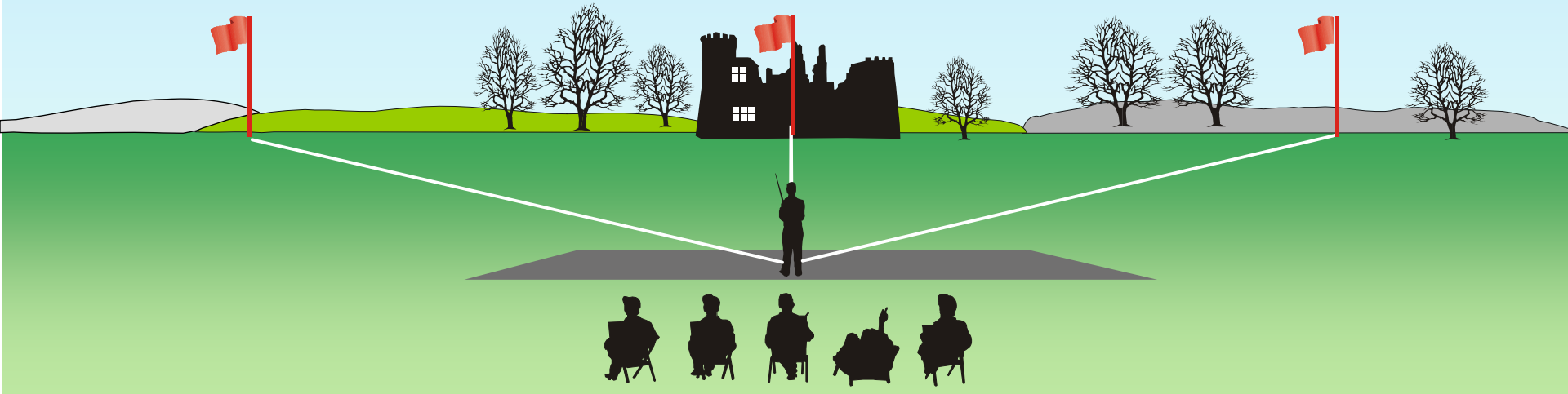
N-13.16: ½ Square Loop on Corner . From upright pull through a 1/8 loop into a 45° upline, pull through a ¼ loop into a 45° upline, pull through a 1/8 loop, exit inverted.



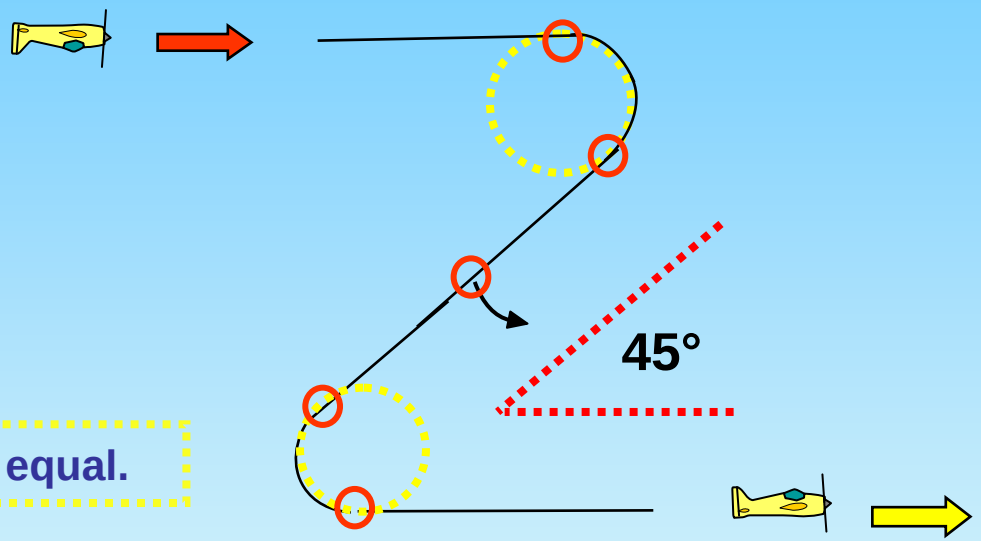
All radii are equal.

N-13.17: Figure Z with ½ roll.
From inverted, pull through a 3/8 loop into a 45° downline, perform a ½ roll, pull through a 3/8 loop, exit upright.





N-13.17: Figure Z with ½ roll.
From inverted, pull through a 3/8 loop into a 45° downline, perform a ½ roll, pull through a 3/8 loop, exit upright.



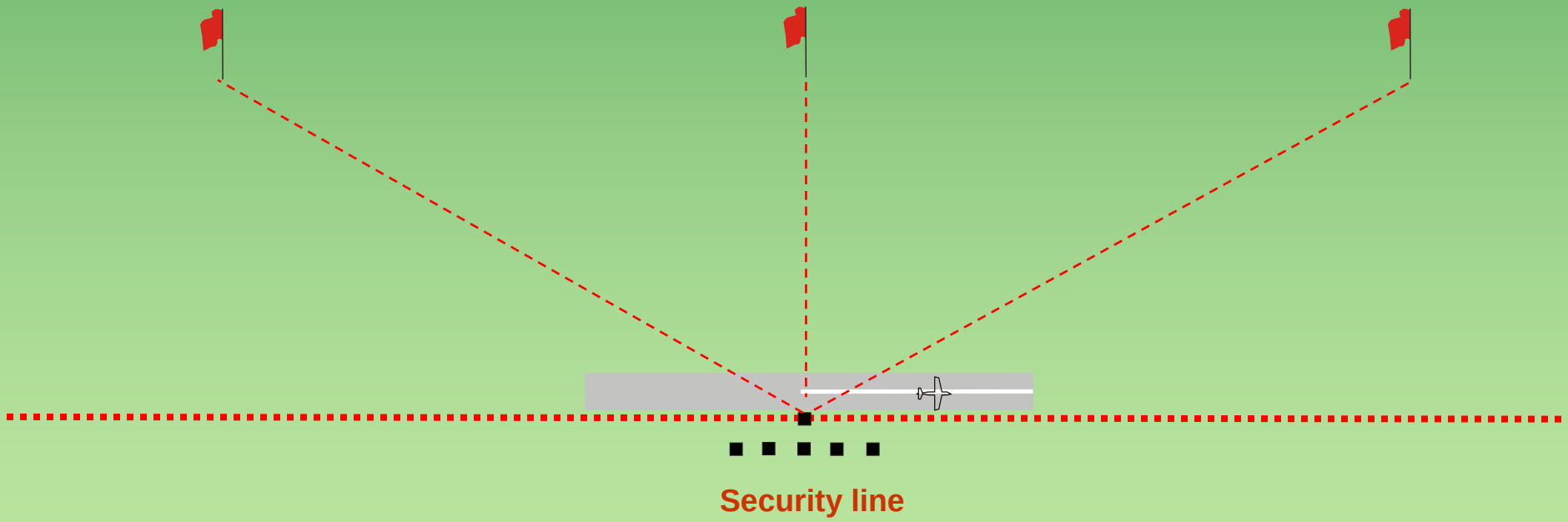
All radii are equal.

Landing procedure

(not judged, not scored)

The direction of the landing may be different to the take off.

wind



Forget WHO is flying

(friend, rival, countryman, flier from other nation)

Forget WHAT is flying

(2-stroke, 4-stroke, electric, turbine, rubber-power)

LOOK ONLY AT LINES DESCRIBED IN THE SKY!

(and the precision, smoothness, positioning, and size)

NORDIC N-13

Thank you for your Time!

Raimo Sällinen, F3A Judge , May 12, 2012