



*Fédération
Aéronautique
Internationale*



Power Known Proposals for 2016

Agenda 10.1 : Advanced

Agenda 10.2 : Unlimited

Agenda 10.3 : Yak-52 / Intermediate

INTRODUCTION

The deadline for the submission of Known sequence proposals to CIVA has now passed. Those proposals were due by 27 September 2015. Thanks to all of those Delegates who submitted proposals.

This package of Power Known proposals will be sent to the CIVA Known Analysis Working Group (KAWG) which is made up of highly experienced competition pilots and coaches including past World Aerobatic Champions. They will evaluate all of the sequences for safety, flyability and suitability for the category, and report their findings back to CIVA. Each sequence will be ranked by the evaluator and those which have safety issues will be eliminated.

Those evaluations will be assembled into a single document and provided to all of the CIVA Delegates as a part of their agenda packages (agenda item 6.5) for CIVA's plenary meeting in October 2015 in Budapest, Hungary. This document is available on the CIVA website in the "Documents" and "Meetings" section.

2015 is a special year for Known sequence selection: The Known Free Working Group appointed by CIVA at the Plenary in 2014 reports its findings this year, with a proposal to change Known Programmes into "Known Free" programmes, whereby selection by CIVA Plenary every year would not be for a complete 9-figure sequence as before, but for a set of five individual mandatory figures to be used by each competitor to compose his/her "Known Free" programme. All details of this WG proposal can be found in a separate Plenary document under agenda item 9.5.

Therefore, should the Known Free proposal be adopted by CIVA during the Plenary meeting this year, the vote for Known programmes will be superseded by a vote for sets of five individual figures. This is the reason why Delegates were invited to also submit such sets this year.

Also, the CIVA Bureau gave the Known Analysis Working Group mandate to create additional sets of five-figures, based on the submitted Known sequence proposals. In this potentially transition year, this will allow a fair number of sets to be presented to Delegates for selection at the Plenary meeting, in case the Known Free proposal is adopted by CIVA. The KAWG will therefore add five-figure sets to the ones presented in this document.

A final vote will be taken at the plenary on the Knowns or on the five-figure sets proposed for each category and announced to the aerobatic community after the meeting.

The Glider Knowns are not presented in this report – they can be found in a separate document, under Plenary agenda items 10.4 and 10.5.

Members of the international aerobatics community are encouraged to review these Knowns, possibly fly them, and provide your input to your national Delegate to CIVA so they can have the benefit of your input before voting end October.

*Matthieu Roulet
Chairman, CIVA Rules Sub-Committee
4 October 2015*



PROPOSAL A

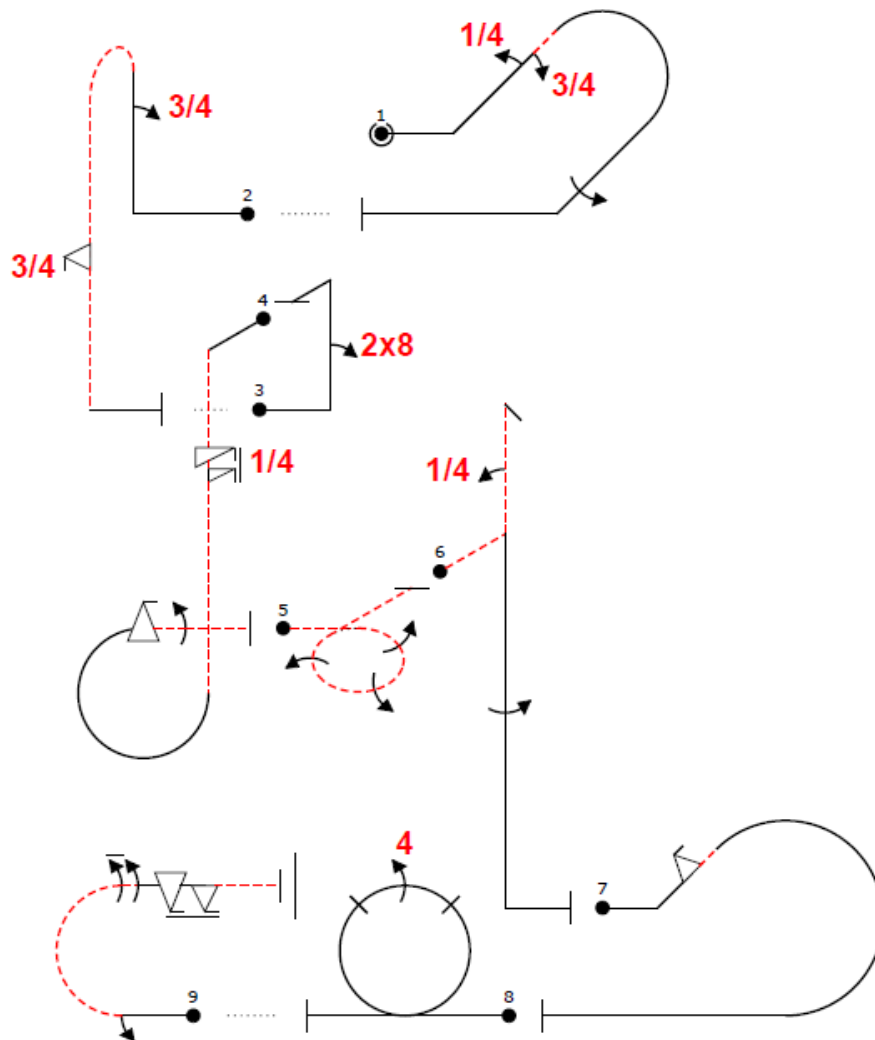
Form B

Pilot ID

CIVA Advanced Known

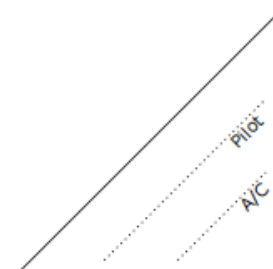
Flight #

wind/vent

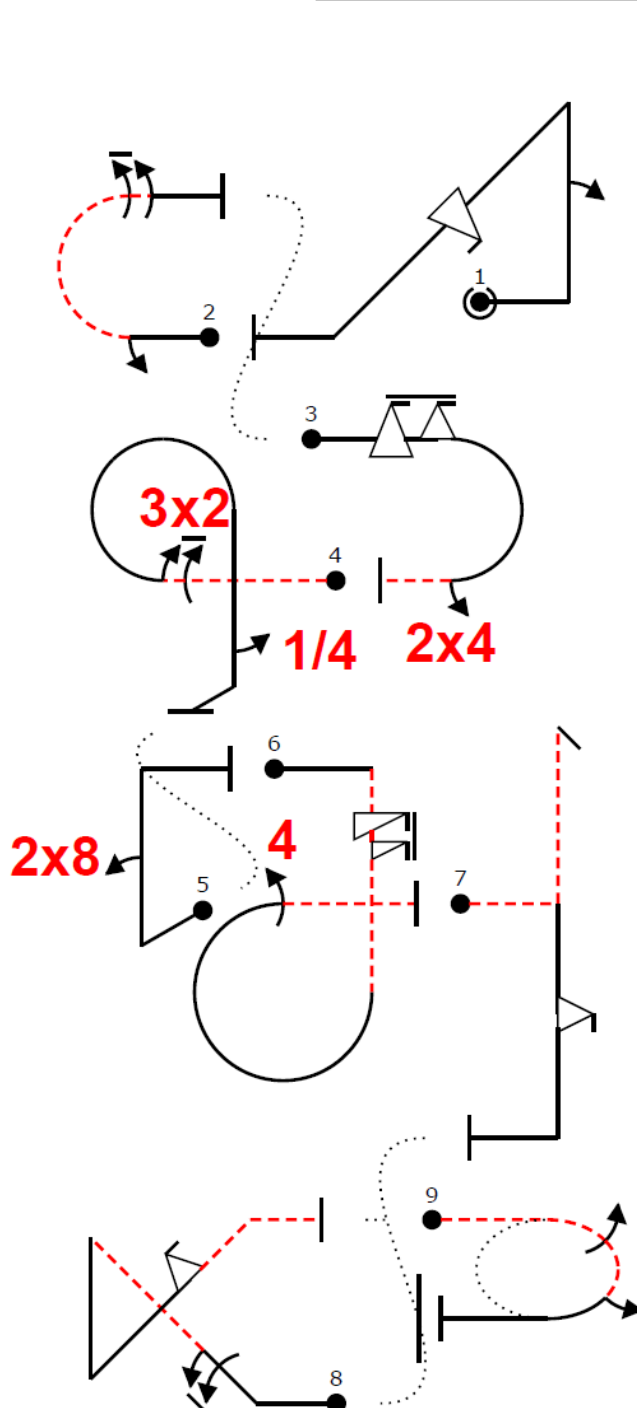


Power			
Fig 1	8.4.15.1	12	32
	9.1.2.1	4	
	9.1.2.3	8	
	9.1.4.4	8	
Fig 2	8.4.3.1	15	38
	9.1.1.3	10	
	9.9.10.3	13	
Fig 3	1.1.6.1	10	17
	9.8.1.1	7	
Fig 4	8.6.3.3	13	36
	9.11.1.5	4	
	9.9.3.4	11	
	9.1.3.4	8	
Fig 5	2.3.4.4	34	34
Fig 6	5.2.1.4	22	36
	9.1.1.1	6	
	9.1.5.4	8	
Fig 7	8.5.2.1	10	23
	9.9.2.2	13	
Fig 8	7.4.1.1	10	21
	9.4.3.4	11	
Fig 9	7.2.4.1	8	38
	9.1.3.2	4	
	9.1.3.8	12	
	9.9.3.6	14	
Total K = 275			

4,3x0b1 (-3,0) 15 ,3pb.,25,4" (2,0) 7,8 M,55...irpE;1-"" -5% ""-3j03-"" M=4h...1... 5% "+" -25"" 20 "+" 044 (-3,0) 270,65-

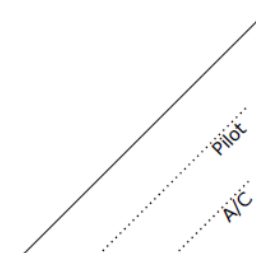


PROPOSAL B		Form B
Pilot ID	CIVA Advanced Known	
		Flight #



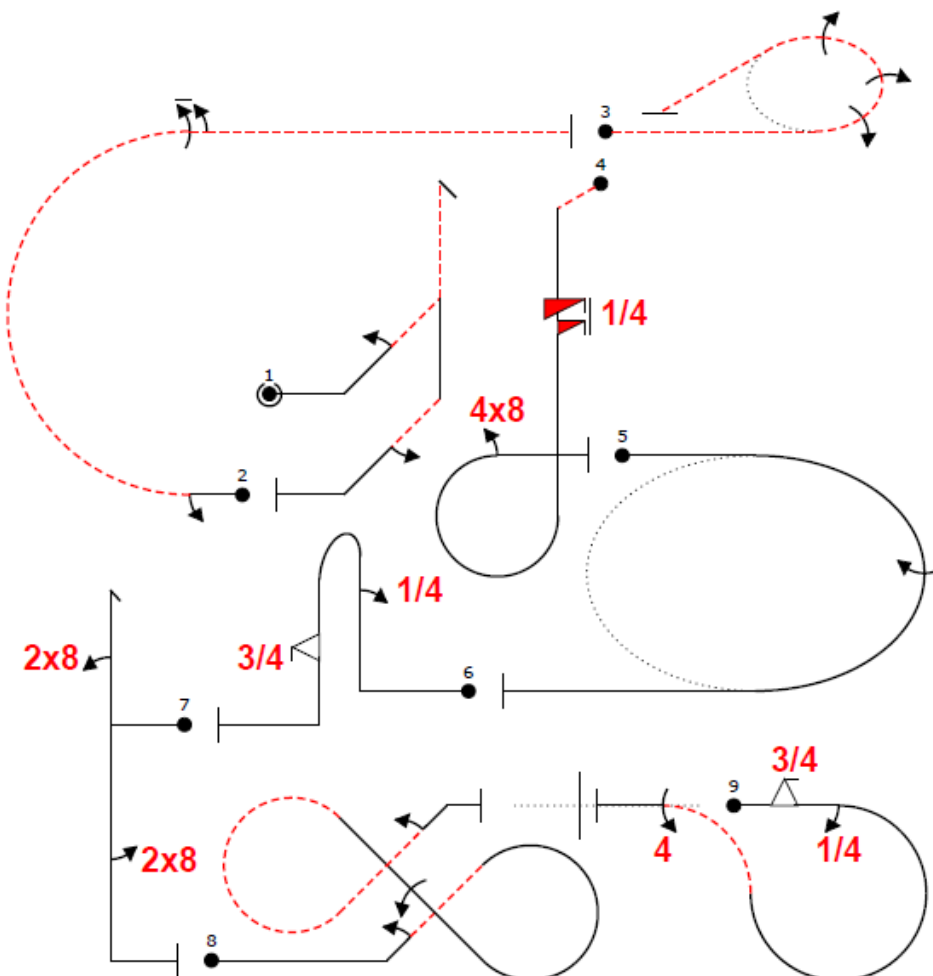
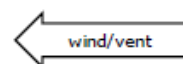
Power			
Fig 1	1.2.6.1 9.1.1.2 9.9.4.4	14 8 11	33
Fig 2	7.2.3.1 9.1.3.2 9.1.3.8	8 4 12	24
Fig 3	7.2.4.3 9.9.3.6 9.4.3.2	6 14 5	25
Fig 4	8.6.7.2 9.2.3.6 9.1.5.1	12 12 2	26
Fig 5	1.1.6.1 9.8.1.1	10 7	17
Fig 6	8.6.3.3 9.11.1.6 9.4.3.4	13 3 11	27
Fig 7	5.2.1.4 9.9.5.2	22 11	33
Fig 8	1.3.4.1 9.1.2.6 9.9.2.2	18 12 13	43
Fig 9	2.2.3.4	26	26
Total K = 254			

-1% ,2kf -2% 2m9 (0,11) -2% 6fa24- -2% -,32p4 (4,7) v8> 6sirp44- -h'2f. (-2,12) -2% '6'w2f (1,0) -2% -2jo15





PROPOSAL C		Form B
Pilot ID	CIVA Advanced	Flight #



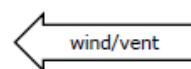
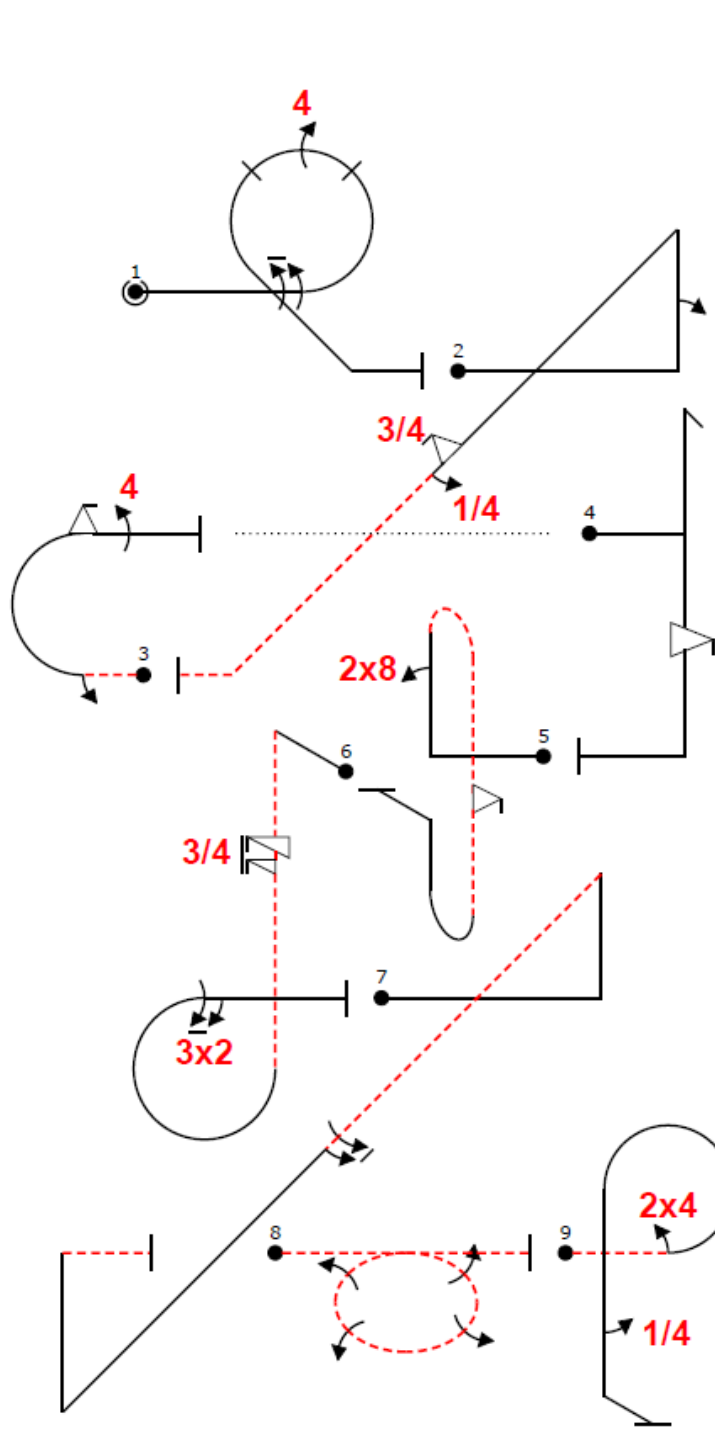
Power			
Fig 1	5.4.4.1	27	37
	9.1.2.2	6	
	9.1.4.2	4	
Fig 2	7.2.4.1	8	22
	9.1.3.2	4	
	9.1.3.6	10	
Fig 3	2.3.4.4	34	34
Fig 4	8.6.2.4	12	25
	9.12.1.5	6	
	9.8.3.2	7	
Fig 5	2.2.2.1	26	26
Fig 6	8.4.1.1	13	30
	9.1.1.1	6	
	9.9.5.3	11	
Fig 7	5.2.1.1	17	27
	9.8.1.1	7	
	9.8.5.1	3	
Fig 8	7.8.14.1	26	48
	9.1.2.2	6	
	9.1.2.4	10	
	9.1.2.2	6	
Fig 9	7.4.9.3	11	35
	9.9.3.3	11	
	9.1.3.1	2	
	9.4.3.4	11	
Total K = 284			

2dhd('') (12 17% ""+2m6"" ""3jo3"" (0,0) -1% -""51a."izp48> 15% ""+2j1 ,4b"",3f> 8h."8." ""2gg(1)""2e"""""" (11,0) 3% ""+3f,41a
o44s"

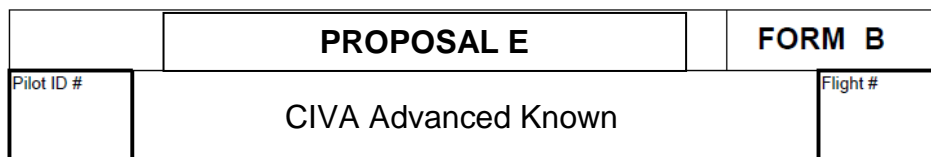
USA Proposal
Pilot
A/C



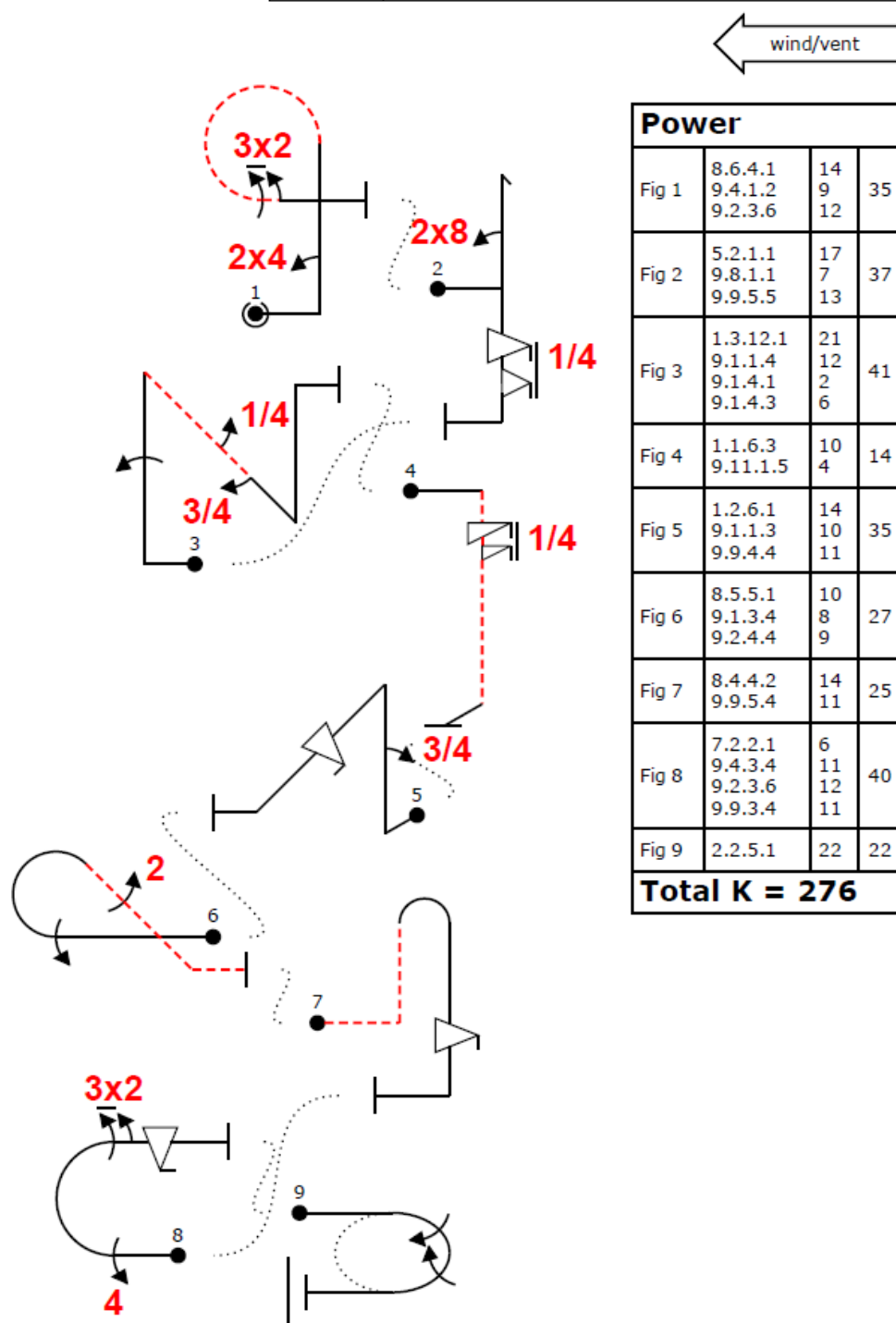
PROPOSAL D		Form B
Pilot ID	CIVA Advanced Known	
		Flight #



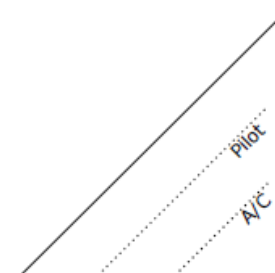
Power			
Fig 1	8.7.5.1 9.1.3.8 9.4.3.4	11 12 11	34
Fig 2	1.2.8.1 9.1.1.2 9.9.4.3 9.1.4.1	16 8 11 2	37
Fig 3	7.2.4.2 9.1.3.2 9.9.3.2 9.4.3.4	6 4 11 11	32
Fig 4	5.2.1.1 9.9.5.4	17 11	28
Fig 5	8.8.6.1 9.8.1.1 9.9.10.2	21 7 13	41
Fig 6	8.6.4.3 9.11.1.7 9.2.3.6	13 3 12	28
Fig 7	1.3.11.1 9.1.4.6	20 10	30
Fig 8	2.4.7.4	43	43
Fig 9	8.6.7.2 9.4.3.2 9.1.5.1	12 5 2	19
Total K = 292			



PROPOSAL F		Form B
Pilot ID	CIVA Advanced Known	
		Flight #



-2% 24rp32 (0,5) -2% 8h5f (-10,8) -4% ..1''n(''4.,3''). (0,6) -1% 3v''5s.'' (2,3) -4% ''',3''kf (4,7) -4% 1c''22~ (0,3) -3% -b.f (-7,9) -2% 4 4m32, f (0,4) -2% 2j2





PROPOSAL G		2016	FORM B
Pilot ID #	Advanced Known		Flight #

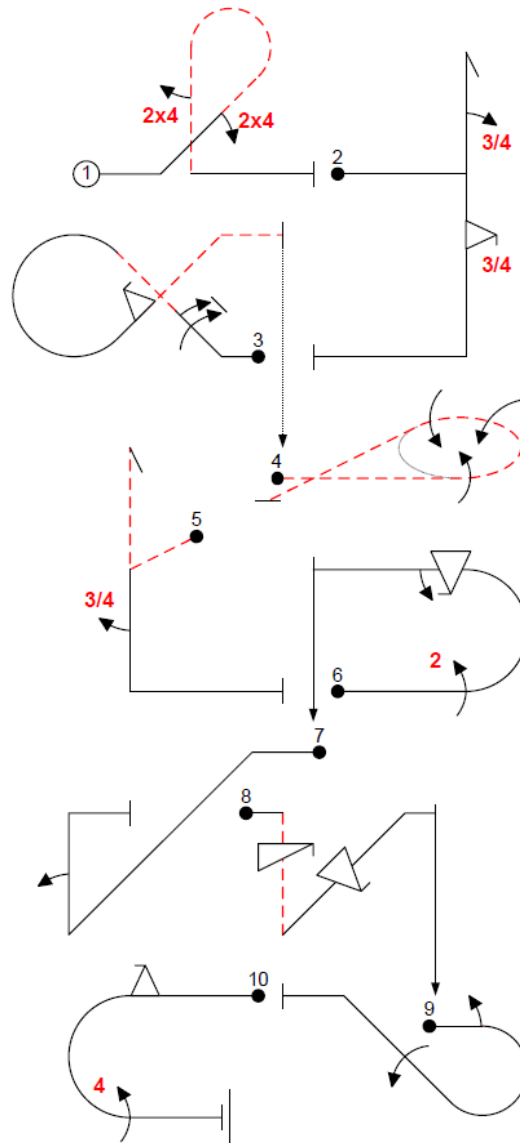
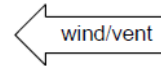


Fig 1	8.5.11.1 9.4.2.2 9.4.5.2	17 7 5	29
Fig 2	5.2.1.1 9.1.1.3 9.9.5.3	17 10 11	38
Fig 3	7.3.4.1 9.1.2.6 9.9.2.2	16 12 13	41
Fig 4	2.3.4.2	31	31
Fig 5	5.2.1.4 9.1.5.3	22 6	28
Fig 6	7.2.2.1 9.2.3.4 9.9.3.4 9.1.3.2	6 9 11 4	30
Fig 7	1.2.1.3 9.1.1.2	13 8	21
Fig 8	1.2.6.3 9.11.1.4 9.9.2.4	15 5 13	33
Fig 9	8.5.7.3 9.1.3.2 9.1.2.4	10 4 10	24
Fig 10	7.2.3.3 9.9.3.2 9.4.3.4	6 11 11	28
Total K 303			

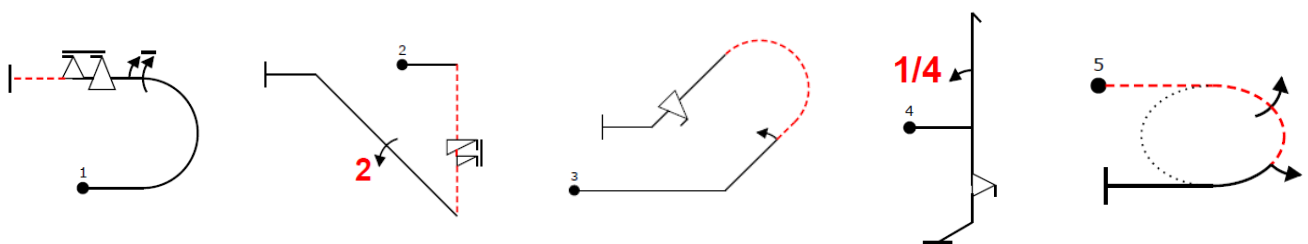


ADVANCED KNOWN FREE MANDATORY FIGURES

PROPOSAL A

Reserved for KAWG

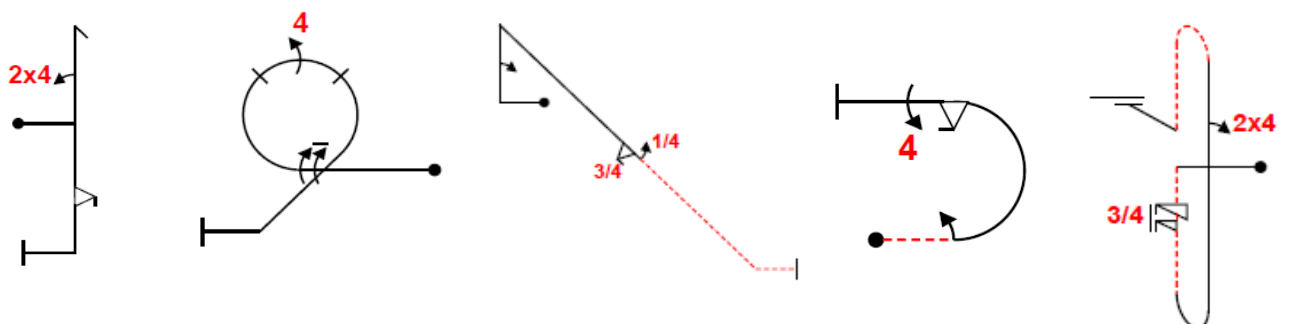
PROPOSAL B



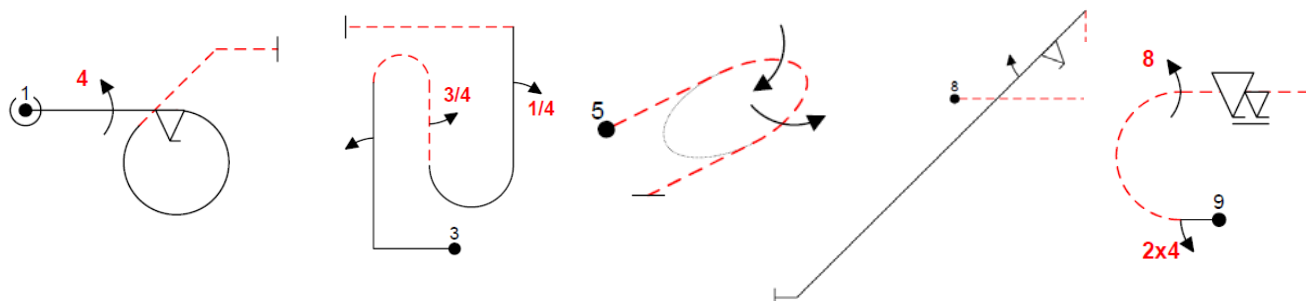
PROPOSAL C

Reserved for KAWG

PROPOSAL D



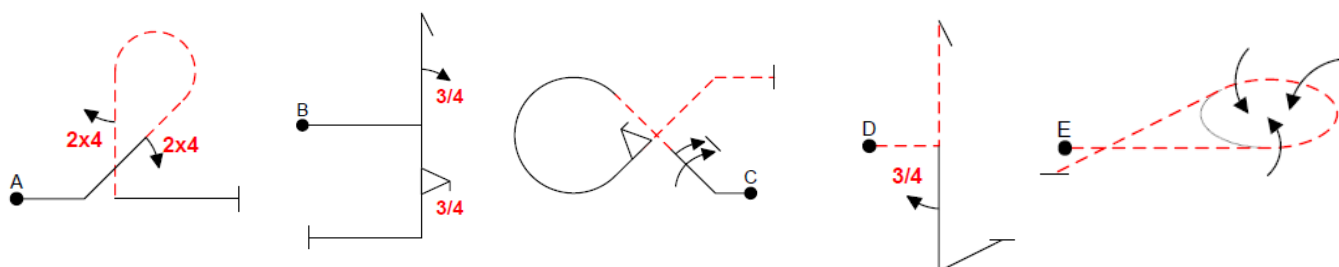
PROPOSAL E



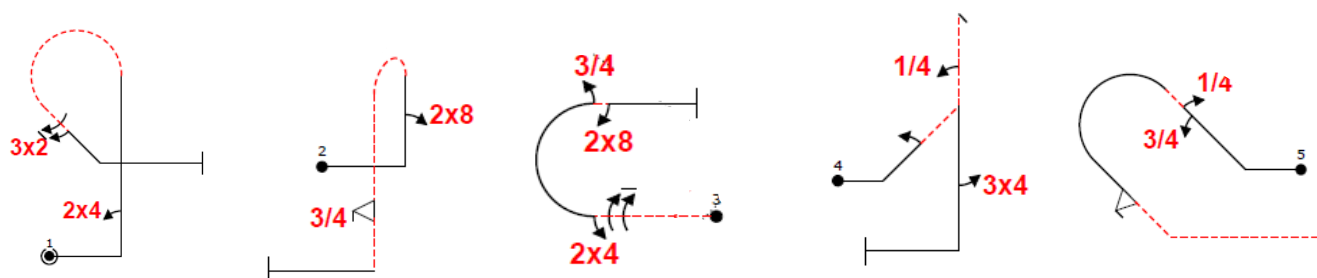
PROPOSAL F

Reserved for KAWG

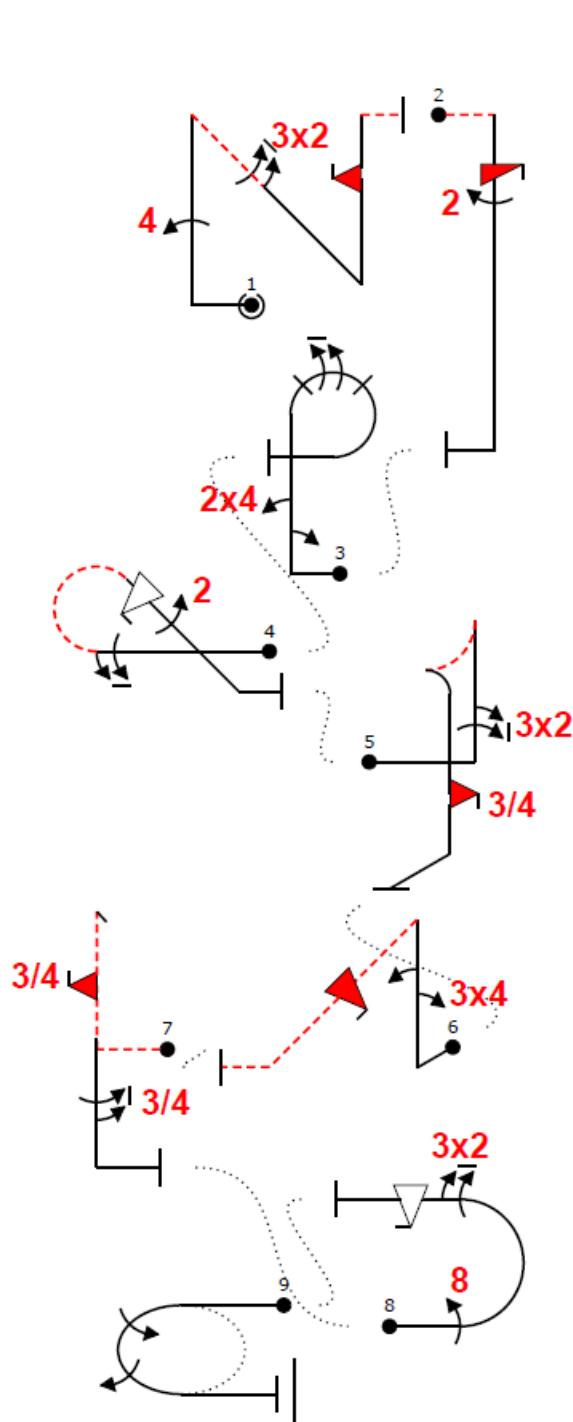
PROPOSAL G



PROPOSAL H

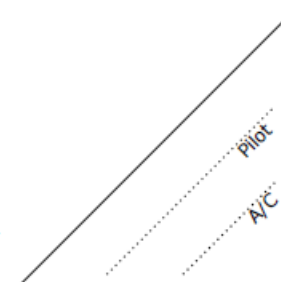


PROPOSAL A		Form B
Pilot ID	CIVA Unlimited Known	
		Flight #

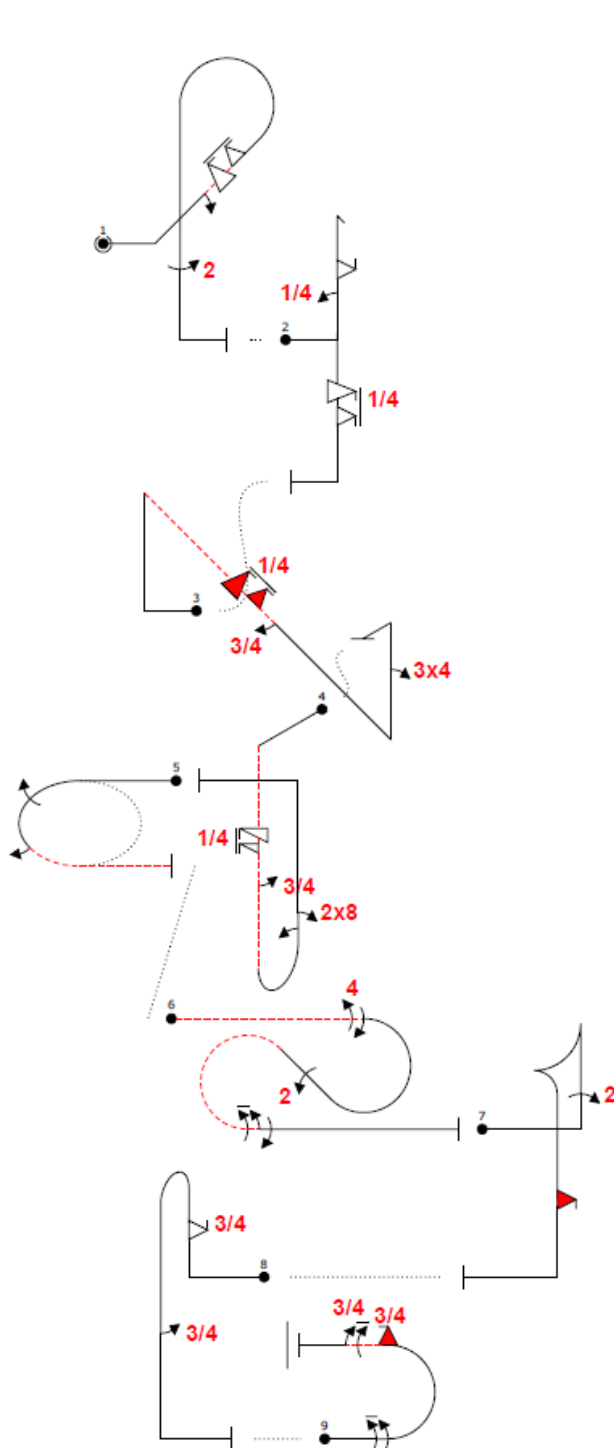


Power			
Fig 1	1.3.11.1 9.4.1.4 9.2.4.6 9.10.6.2	20 15 12 19	66
Fig 2	1.1.7.4 9.12.1.4 9.2.5.4	9 7 9	25
Fig 3	8.6.1.1 9.1.1.2 9.4.1.2 9.1.3.8	11 8 9 12	40
Fig 4	8.5.7.1 9.1.3.6 9.9.4.4 9.2.4.4	12 10 11 9	42
Fig 5	6.2.2.1 9.2.1.6 9.10.5.3	15 17 13	45
Fig 6	1.2.5.1 9.4.1.3 9.1.1.2 9.10.4.4	14 12 8 13	47
Fig 7	5.2.1.4 9.10.1.3 9.1.5.7	22 17 11	50
Fig 8	7.2.2.1 9.8.3.4 9.2.3.6 9.9.3.4	6 15 12 11	44
Fig 9	2.2.6.1	25	25
Total K = 384			

ed -4% ~. '44. 'n(32...)' '2if' -3% -ivis,22.....' (-2,7) -4% '2'',24''rp(9) (4,11) -4% 6c',f',22 (1,4) -3% '32'ite3if' (7,7) -3% '34',3ki
f- (1,-1) -1% -3ifh7' (9,9) -1% 88n,32,f (1,6) -1% 2jio2



PROPOSAL B		Form B
Pilot ID	CIVA Unlimited Programme1	
		Flight #

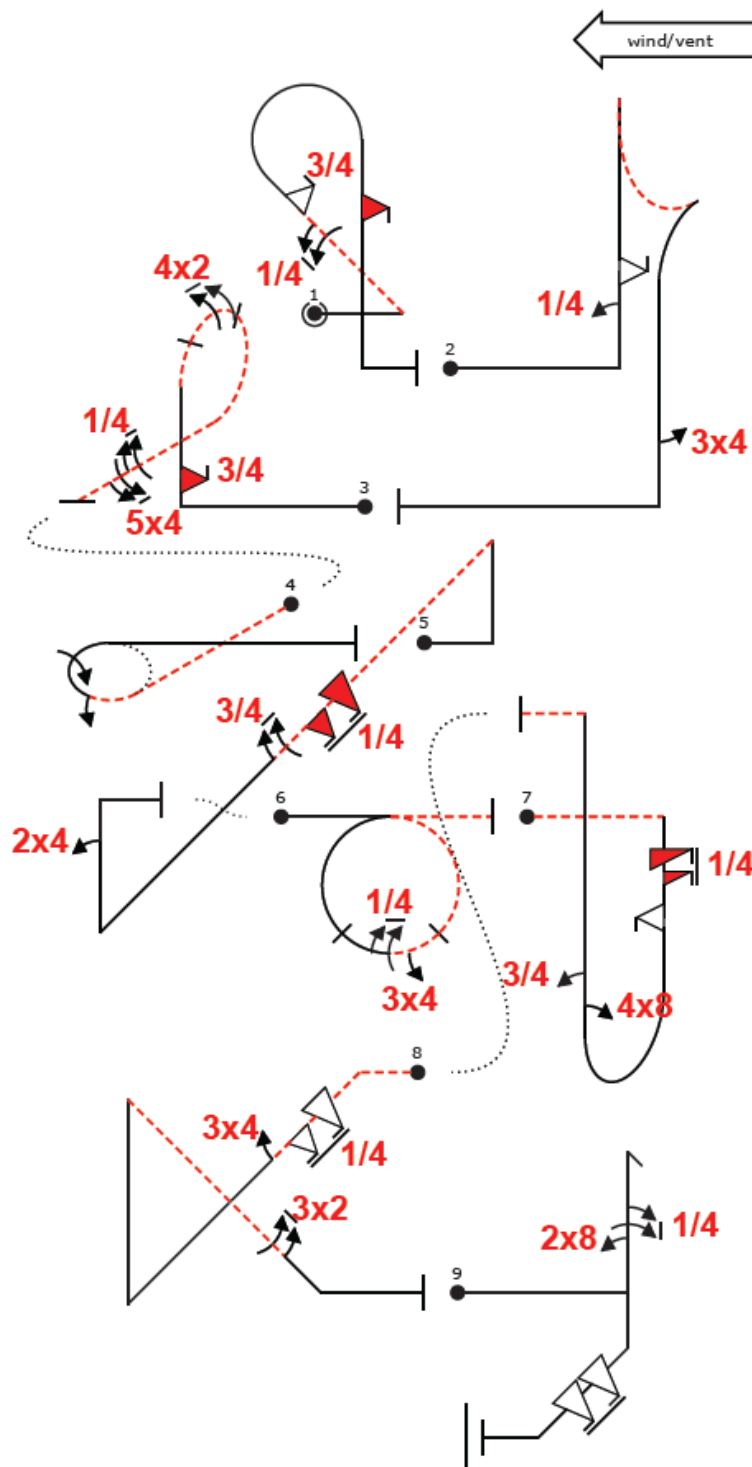


Power			
Fig 1	8.5.9.1	12	46
	9.1.2.2	6	
	9.9.7.6	19	
	9.2.5.4	9	
Fig 2	5.2.1.1	17	51
	9.1.1.1	6	
	9.9.1.2	15	
	9.9.5.5	13	
Fig 3	1.3.12.1	21	54
	9.10.4.5	15	
	9.1.4.3	6	
	9.4.1.3	12	
Fig 4	8.4.3.3	15	40
	9.1.1.5	4	
	9.1.5.3	6	
	9.1.1.2	8	
Fig 5	9.8.1.1	7	26
	2.2.3.3	26	
	7.5.4.4	16	
	9.4.3.4	11	
Fig 6	9.1.3.4	8	64
	9.2.2.4	11	
	9.1.3.6	10	
	9.1.3.4	8	
Fig 7	6.2.1.1	15	41
	9.2.1.4	13	
	9.10.5.2	13	
	8.4.1.1	13	
Fig 8	9.9.1.3	15	34
	9.1.5.3	6	
	7.2.2.1	6	
	9.1.3.8	12	
Fig 9	9.10.8.3	15	44
	9.1.3.7	11	
	Total K = 400		

,2,6fy..**22 [1,0] 4,22m*5f. (-4,11) n(-51f,3...),34 (0,4) 4% '5a,3.1b''''2,8.' 3% 2joi15- [-4,13] ''-44,11ac(22)6,1 '22ba'2if.'
(-13,0) ''',3f'b.'*3.'* (4,0) 9u,3if/7

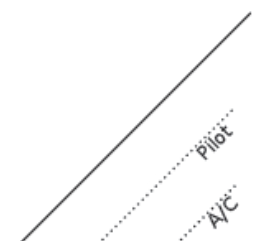


PROPOSAL C		Form B
Pilot ID	CIVA Unlimited Known	Flight #



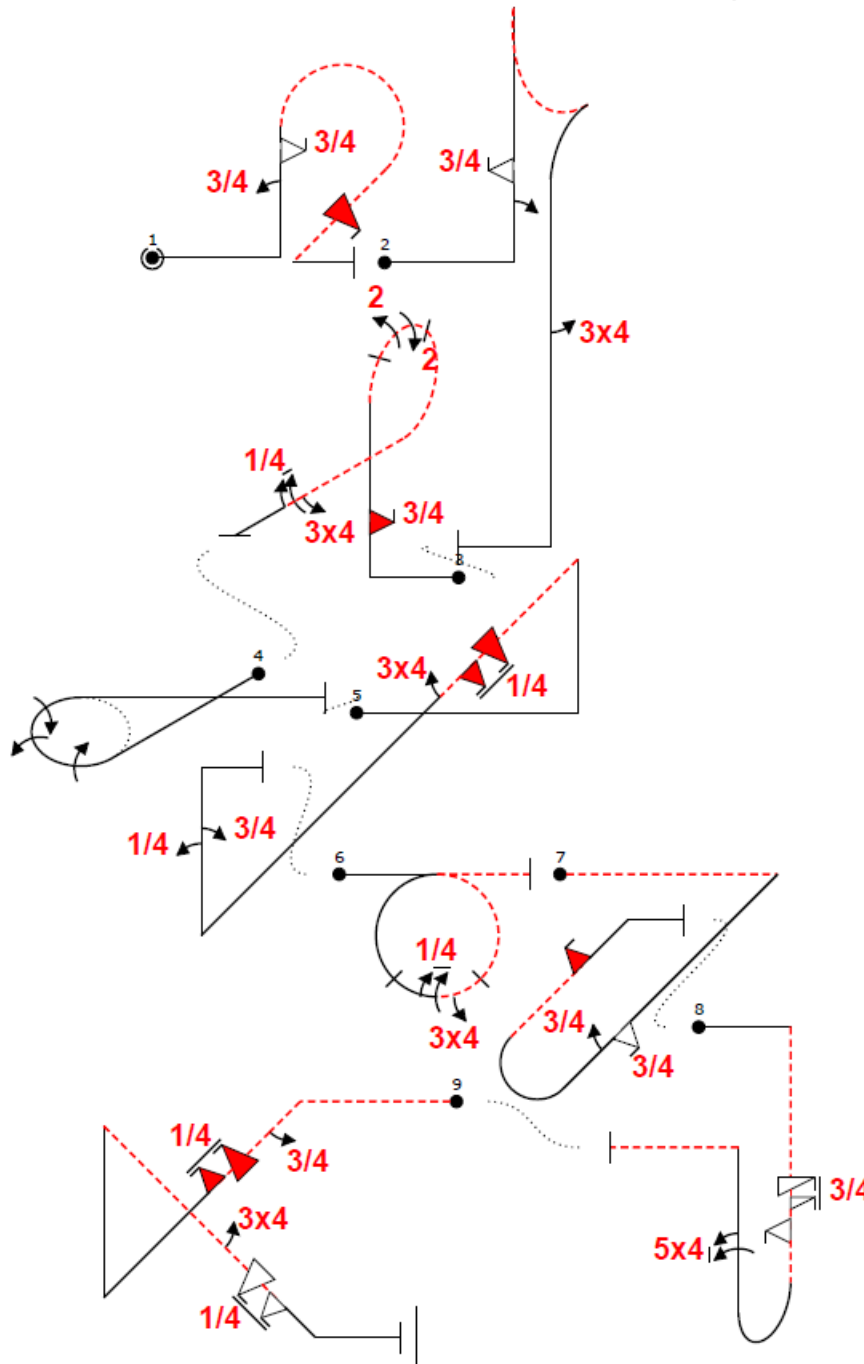
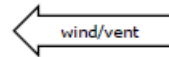
K 454

-2% ~''s,3fzy'2if. 9% '''+4',2f'ite''34 -2% ++,3ifrp(.42)...5,54'' (16,4) -4% ~-3jois1++++-4% 2> ~n(....'5if',7.....').24~





PROPOSAL D		Form B
Pilot ID	CIVA Unlimited Known	
		Flight #



K 448

```s,3f```nyzif 10% ````+2',3f'ite``s4.``+```` (4,2) -1% ~~,Sifrp(22,22)....34,5 (5,7) -2% ~~~~9jio3+++ (-2,1) ~~~~n(Sif,34.....)4, 3 (1,7) io34,5- 4% ~~~~.3f,3izb....2if (-3,7) 4% ``+7s'',2fib``s4- (-6,-3) 4% -3,Sif``iw34,5f``



<b>PROPOSAL E</b>		2016	<b>FORM B</b>
Pilot ID #	Unlimited Known Proposal		Flight #

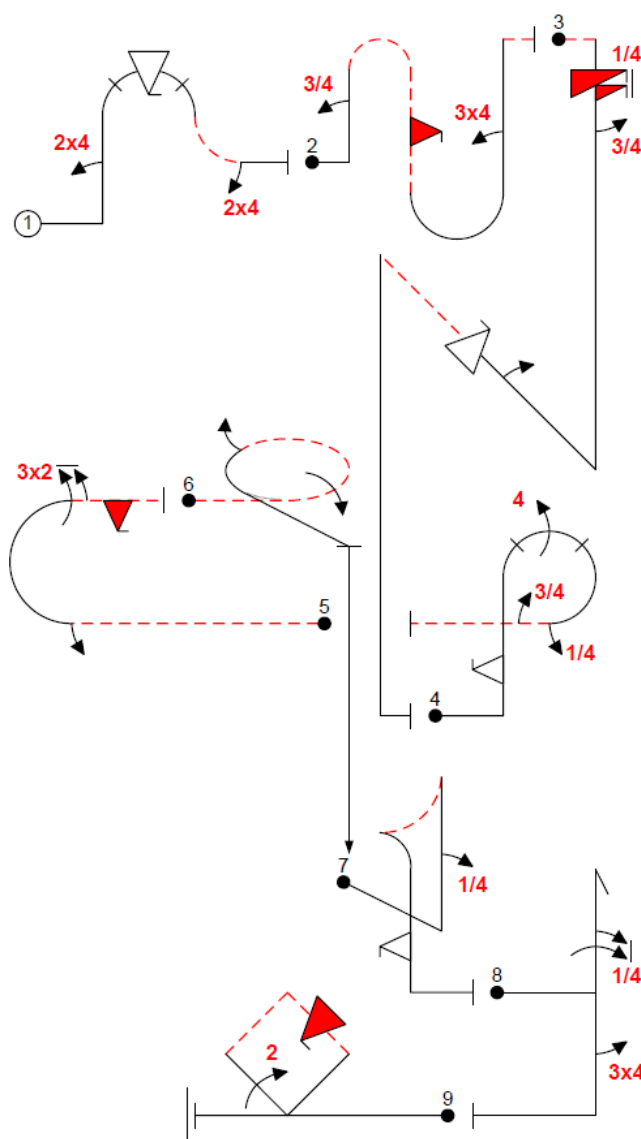
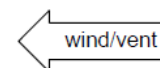
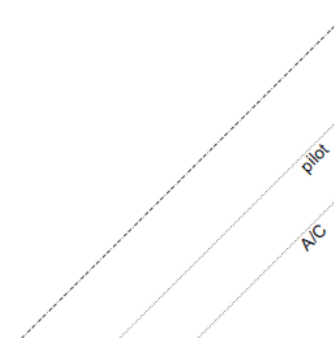


Fig 1	8.6.10.1 9.4.1.2 9.9.3.4 9.4.3.2	12 9 11 5	37
Fig 2	8.8.5.1 9.1.1.3 9.10.5.2 9.4.1.3	21 10 13 12	56
Fig 3	1.3.11.4 9.12.1.5 9.1.5.3 9.1.2.2 9.9.7.4	20 6 6 6 15	53
Fig 4	8.6.2.1 9.9.1.2 9.4.3.4 9.1.3.1 9.1.3.3	12 15 11 2 6	46
Fig 5	7.2.3.2 9.1.3.2 9.2.3.6 9.10.8.2	7 4 12 15	38
Fig 6	2.3.2.4	37	37
Fig 7	6.2.2.1 9.1.1.1 9.9.5.2	15 6 11	32
Fig 8	5.2.1.1 9.1.1.5 9.4.5.3	17 14 8	39
Fig 9	7.4.5.1 9.2.2.4 9.10.4.4	15 11 13	39
Total K = 377			



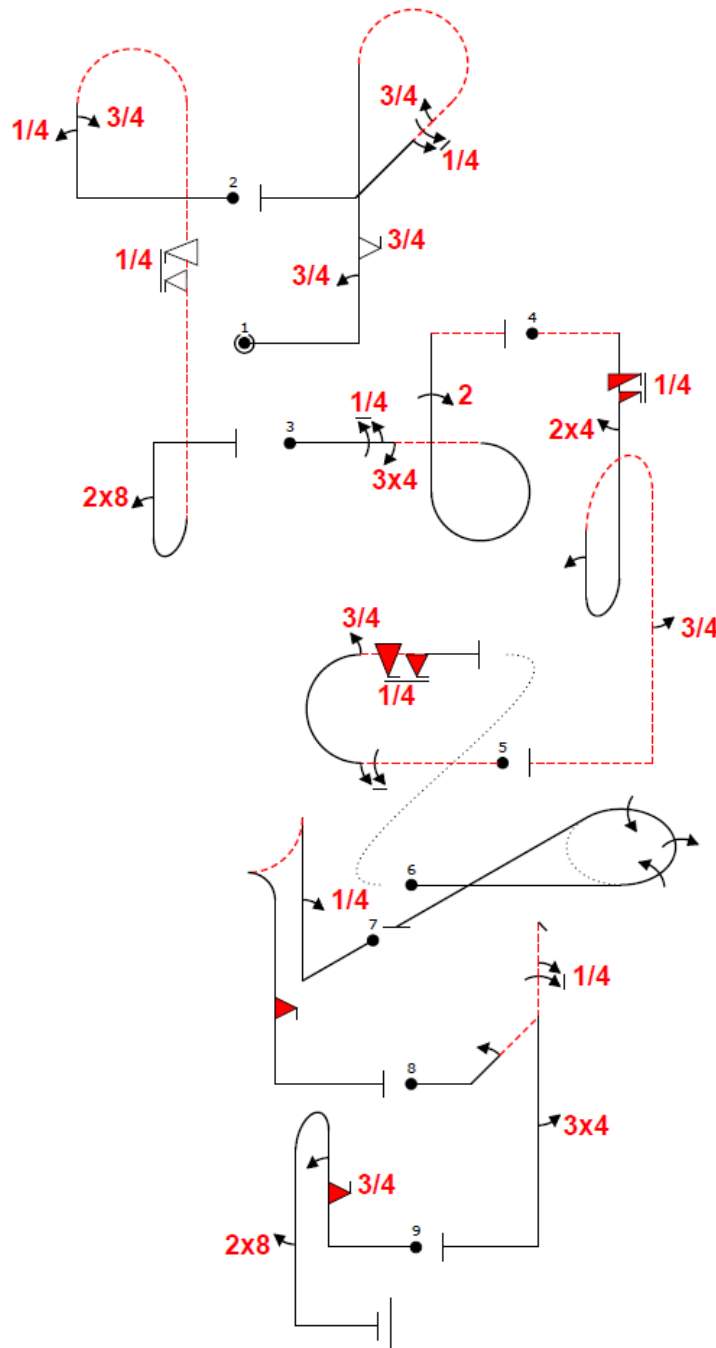
**PROPOSAL F**

Form B

Pilot ID

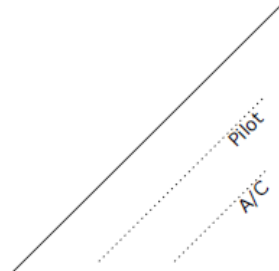
Unlimited Known Proposal

Flight #



Power			
Fig 1	8.5.20.1	16	56
	9.1.1.3	10	
	9.9.1.3	15	
	9.1.4.3	6	
	9.1.4.5	9	
Fig 2	8.8.6.1	21	59
	9.1.1.1	6	
	9.1.1.3	10	
	9.9.10.5	15	
	9.8.1.1	7	
Fig 3	8.6.7.3	12	42
	9.1.3.5	9	
	9.4.3.3	8	
	9.2.1.4	13	
Fig 4	8.8.4.4	22	47
	9.12.1.5	6	
	9.4.5.2	5	
	9.1.1.2	8	
	9.1.5.3	6	
Fig 5	7.2.4.2	6	39
	9.1.3.6	10	
	9.1.3.3	6	
	9.10.8.5	17	
Fig 6	2.3.5.1	35	35
Fig 7	6.2.2.1	15	34
	9.1.1.1	6	
	9.10.5.2	13	
Fig 8	5.3.2.1	24	52
	9.1.2.2	6	
	9.1.1.5	14	
	9.4.5.3	8	
Fig 9	8.4.1.1	13	43
	9.10.6.3	19	
	9.1.1.2	8	
	9.8.5.1	3	
Total K = 407			

3,3f...y,3,5+ 4,3pBb('5f...')'8> -15 2> 4,5,34...ip,22...mw -'5is,24...ibpB('2')...3...mw-6m3,5if (-9, 17) ~++3jio3++++ '4ita2if-> 2dh('5')'34...+ '3if,2b',8''



## UNLIMITED KNOWN FREE MANDATORY FIGURES

### PROPOSAL A

Reserved for KAWG

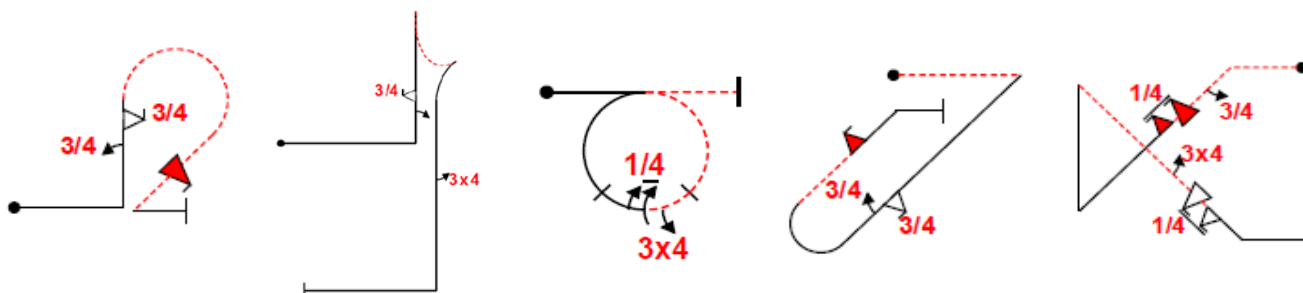
### PROPOSAL B

Reserved for KAWG

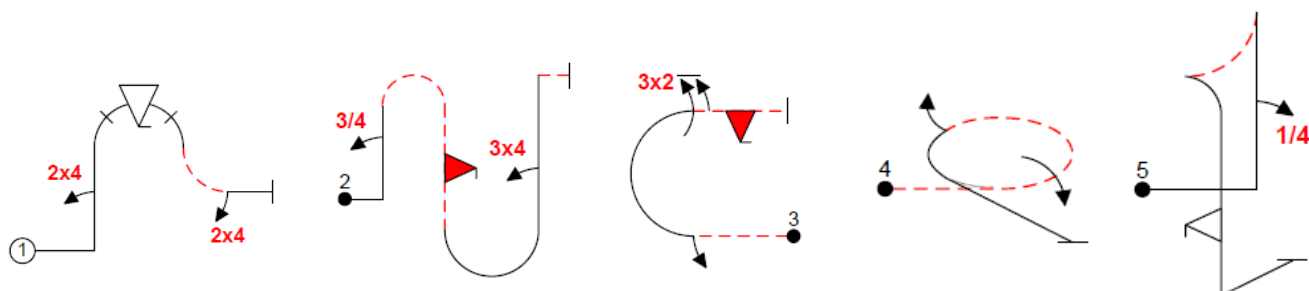
### PROPOSAL C

Reserved for KAWG

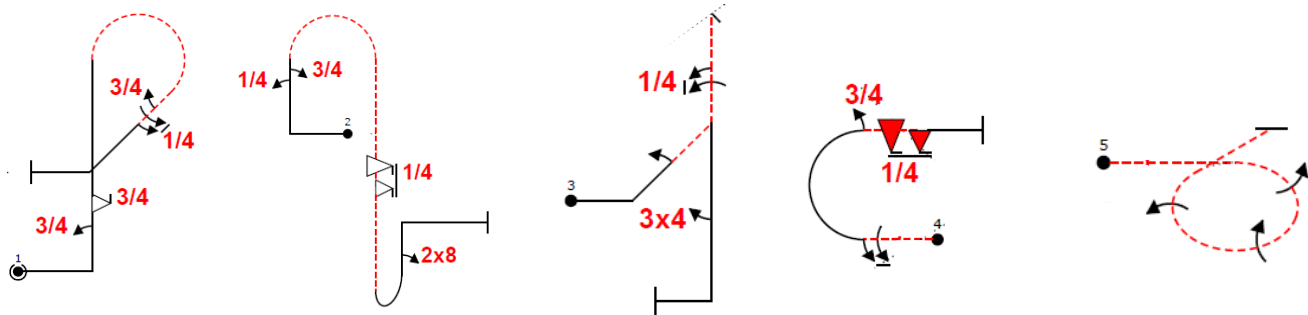
### PROPOSAL D



### PROPOSAL E

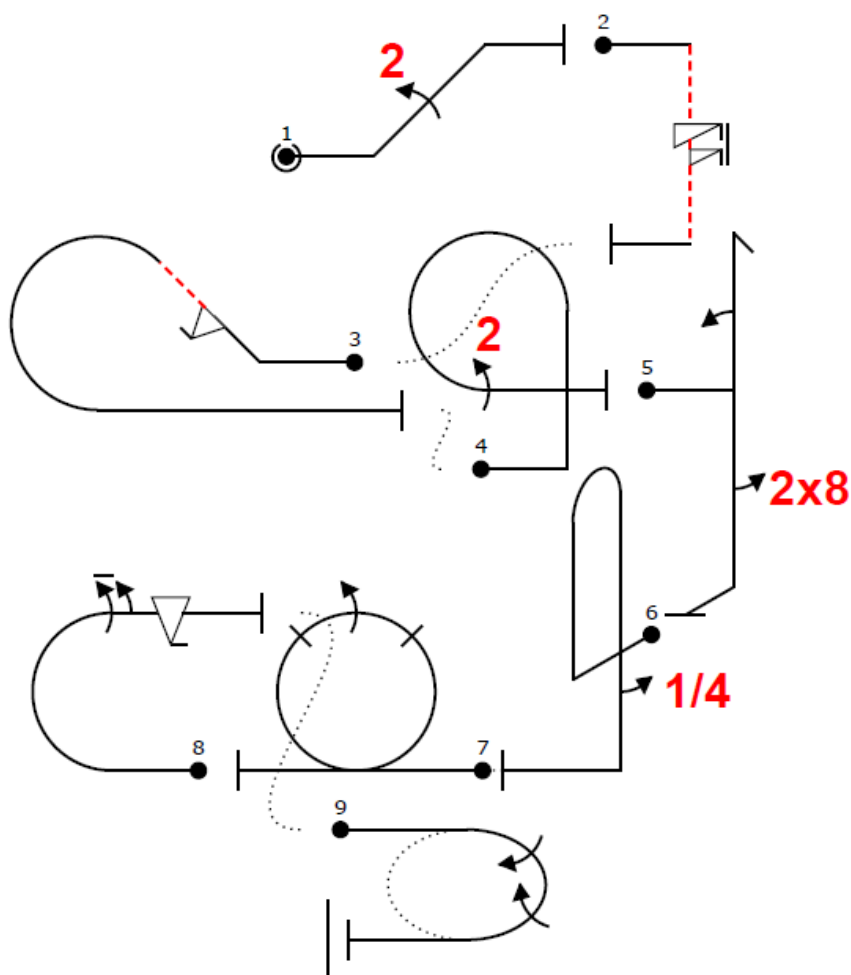
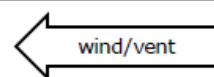


## PROPOSAL F



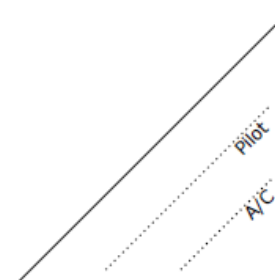


<b>PROPOSAL A</b>		Form B
Pilot ID	CIVA Yak-42 / I Known	Right #



Power			
Fig 1	1.1.2.1 9.2.2.4	7 11	18
Fig 2	1.1.6.3 9.11.1.6	10 3	13
Fig 3	8.5.2.1 9.9.2.2	10 13	23
Fig 4	8.6.1.1 9.2.3.4	11 9	20
Fig 5	5.2.1.1 9.1.1.2 9.8.5.1	17 8 3	28
Fig 6	8.4.1.1 9.1.5.1	13 2	15
Fig 7	7.4.1.1 9.1.3.4	10 8	18
Fig 8	7.2.2.1 9.1.3.6 9.9.3.4	6 10 11	27
Fig 9	2.2.5.1	22	22
<b>Total K = 184</b>			

d22 iv6s (-9,6) 1% "\*\*\*\*\*"2f'rc (0,3) rp22 2h's. b.'4 (3,0) a1 ms,f (0,11) 2j2





<b>PROPOSAL B</b>		<b>FORM B</b>
Pilot ID #	CIVA Yak-42 / I Known	
		Flight #

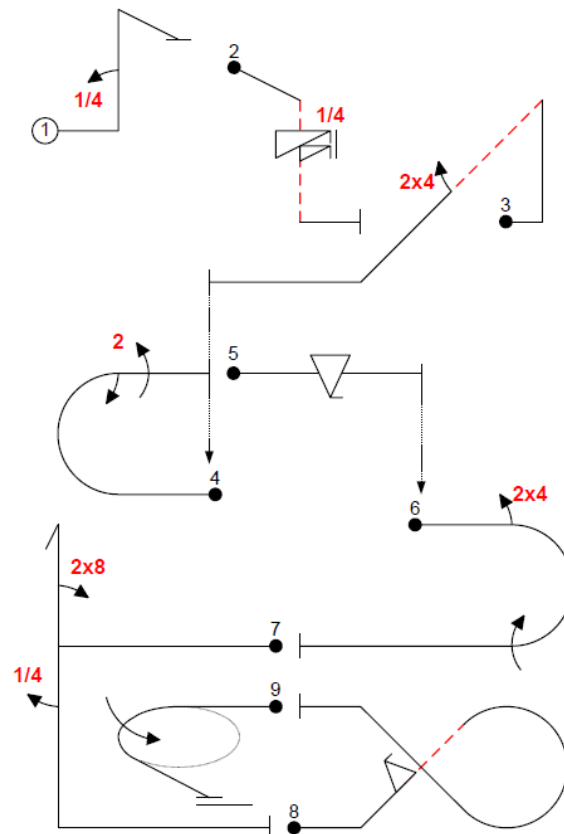
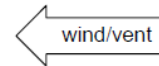
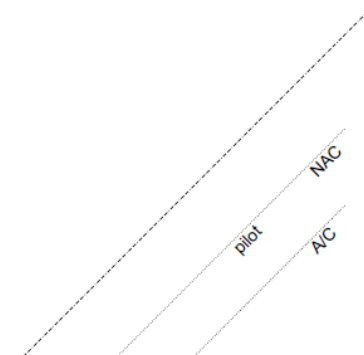
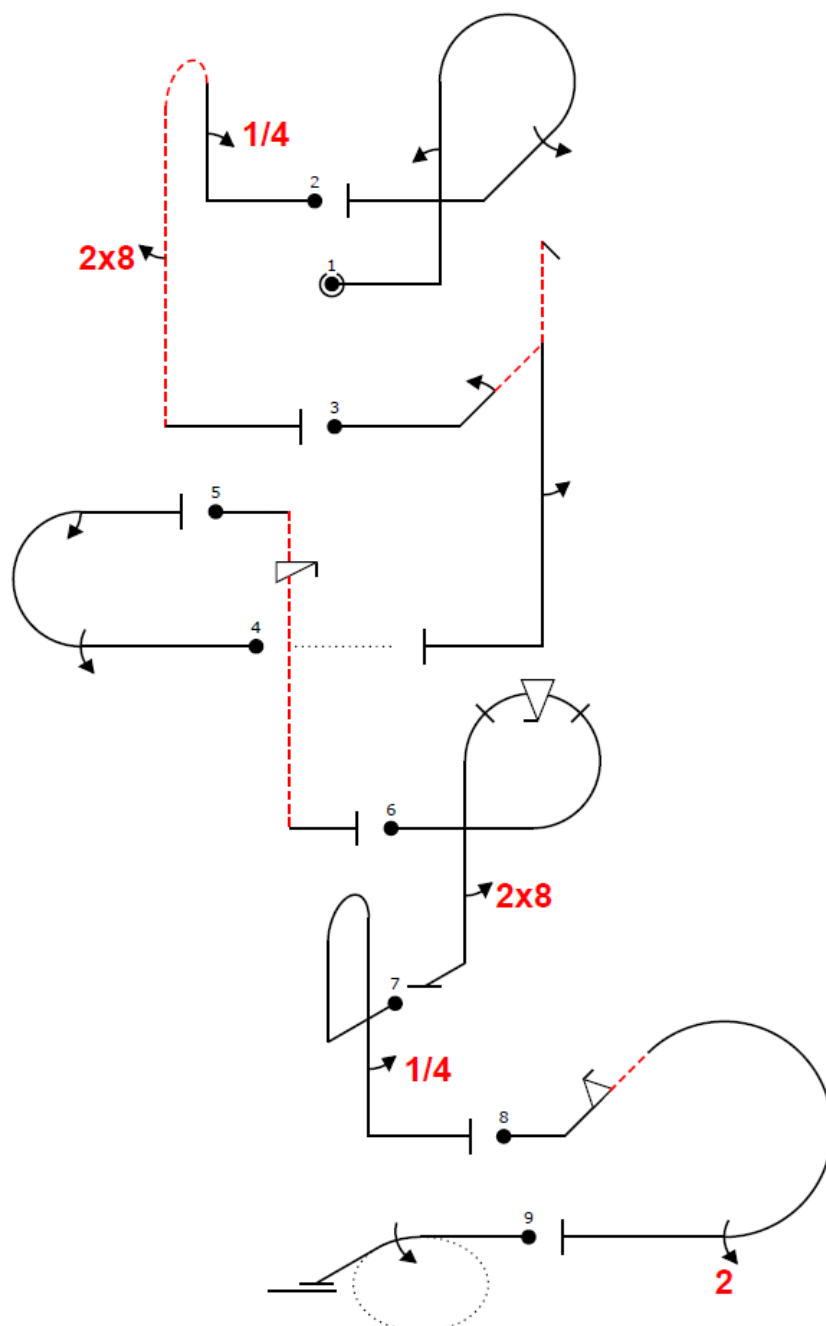
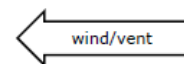


Fig 1	1.1.6.1 9.1.1.1	10 6	16
Fig 2	1.1.6.3 9.11.1.5	10 4	14
Fig 3	1.2.7.1 9.4.4.2	13 5	18
Fig 4	7.2.2.1 9.1.3.2 9.2.3.4	6 4 9	19
Fig 5	1.1.1.1 9.9.3.4	2 11	13
Fig 6	7.2.3.3 9.4.3.2 9.1.3.4	6 5 8	19
Fig 7	5.2.1.1 9.8.1.1 9.1.5.1	17 7 2	26
Fig 8	7.3.2.1 9.9.2.2	14 13	27
Fig 9	2.1.3.1	14	14
Total K 166			



<b>PROPOSAL C</b>		Form B
Pilot ID	CIVA Intermediate Programme1	Flight #



Power			
Fig 1	8.5.17.1 9.1.1.2 9.1.4.4	12 8 8	28
Fig 2	8.4.3.1 9.1.1.1 9.8.5.1	15 6 3	24
Fig 3	5.3.2.1 9.1.2.2 9.1.5.2	24 6 4	34
Fig 4	7.2.2.1 9.1.3.4 9.1.3.2	6 8 4	18
Fig 5	1.1.6.3 9.11.1.4	10 5	15
Fig 6	8.6.5.1 9.9.3.4 9.8.5.1	11 11 3	25
Fig 7	8.4.1.1 9.1.5.1	13 2	15
Fig 8	8.5.2.1 9.9.2.2 9.2.3.4	10 13 9	32
Fig 9	2.1.3.1	14	14
Total K = 205			

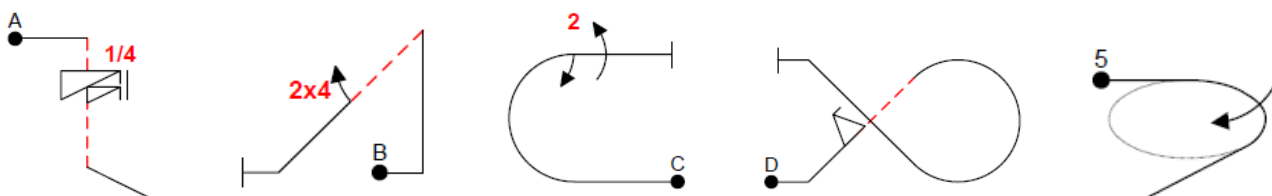
Known Figures  
Pilot  
A/C

## YAK-52 / INTERMEDIATE KNOWN FREE MANDATORY FIGURES

### PROPOSAL A

Reserved for KAWG

### PROPOSAL B



### PROPOSAL C

