

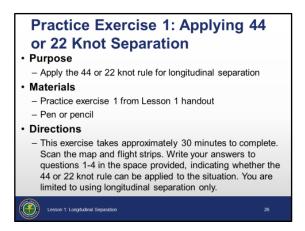
55054002 EN ROUTE RADAR ASSOCIATE CONTROLLER TRAINING PART B: NONRADAR

Handout 1: Practice Exercises 1, 2, 3

Lesson 1: Longitudinal Separation

Version: 1.0 2022.08





#### **Purpose**

Apply the 44 or 22 knot rule for longitudinal separation

#### **Materials**

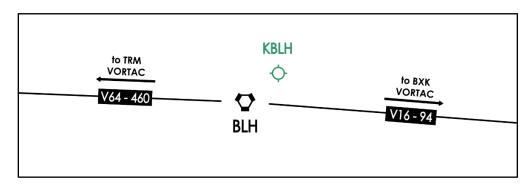


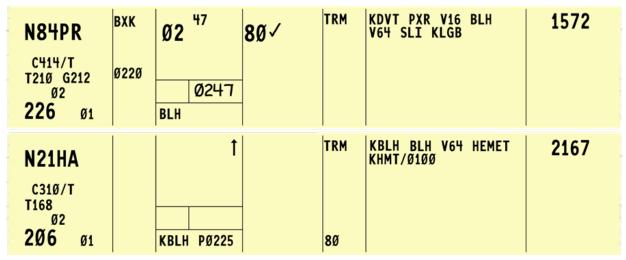
- Practice exercise 1 from Lesson 1 handout
- Pen or pencil

#### **Directions**

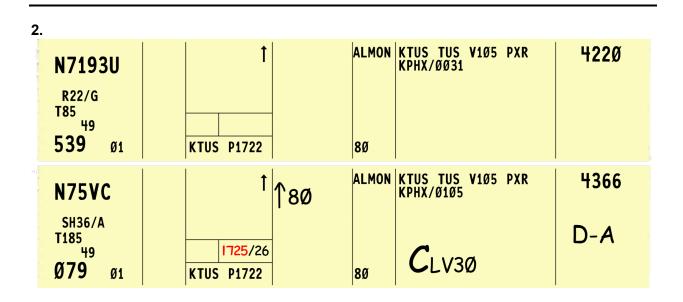
This exercise takes approximately 30 minutes to complete. Scan the map and flight strips. Write your answers to questions 1-4 in the space provided, indicating whether the 44 or 22 knot rule can be applied to the situation. You are limited to using longitudinal separation only.

1.



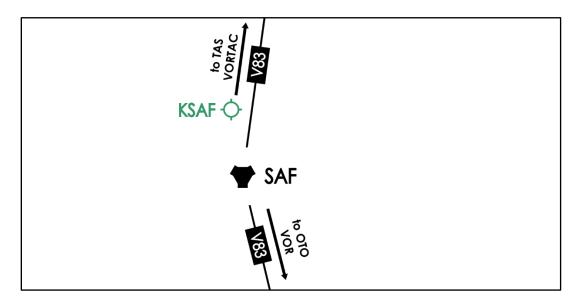


Time is 0248. What is the earliest time N21HA may be released? Explain your answer.



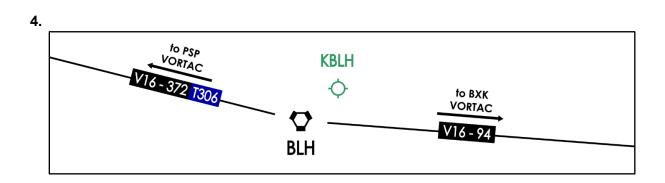
Time is 1726. What is the earliest time N7193U may be released? Explain your answer

3.



N7178Q  C172/G T13Ø G111  16 356 Ø1	TAS Ø22Ø	20 22 9 22 SAF	ОТО ОТО	KMVI ALS V83 CME KROW/Ø232	1572
N115LF  CL3Ø/L T458 16 701 Ø1		KSAF P2Ø3Ø	<b>ОТО</b> <b>4</b> ØØ	KSAF SAF V83 OTO TCS J13 BECON UT13 LMM SJD MMSD/Ø141	2167

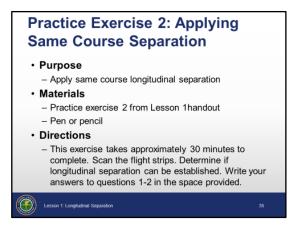
Time	ime is 2023. What is the earliest time N115LF may be released? Explain your answer.									
_										



N72AZ PC12/L T244 G232 42 971 Ø4	BXK 1558	22   1622   BLH	80⁄	PSP	KPHX BXK V16 PSP KPSP/Ø1Ø9	1572
N323RB  SR22/G T155 42 Ø91 Ø1		KBLH P163Ø		PSP 80	KBLH BLH V16 PSP V386 SOGGI APLES PMD V197 EHF COREZ AVE V107 PXN WINDY SMONE KLVK/Ø3Ø8	2167
N55ØBZ  BE55/G T19Ø 16 7Ø1 Ø1		KBLH P163Ø		PSP 80	KBLH BLH V16 DODGR KEMT/ØØ45	1025

Time is 1625. What is the most efficient order to release N323RB and N550BZ? Explain your answer.

### PRACTICE EXERCISE 2: APPLYING SAME COURSE SEPARATION



#### **Purpose**

Apply same course longitudinal separation

#### **Materials**



- Practice exercise 2 from Lesson 1 handout
- Pen or pencil

#### **Directions**

This exercise takes approximately 30 minutes to complete. Scan the flight strips. Determine if longitudinal separation can be established. Write your answers to questions 1-2 in the space provided.

# PRACTICE EXERCISE 2: APPLYING SAME COURSE SEPARATION (CONT'D)

1.

DAL 24Ø  B738/L T448 G456 Ø2 226 Ø1	TFD Ø231	<b>Ø2</b> 49 49 550	37∅✓	EWM	KLAX DOTSS2 CNERY BLH J169 TFD J50 SSO J4 INK GEEKY SOCKK3 KDFW	4111
AAL831  A319/L  T458 G465  Ø2  226 Ø1	TFD Ø225	<b>Ø2</b> 43 43 550	35∅✓	EWM	KLAX DOTSS2 CNERY BLH J169 TFD J50 SSO J4 INK GEEKY SOCKK3 KDFW	<b>43</b> Ø6

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# PRACTICE EXERCISE 2: APPLYING SAME COURSE SEPARATION (CONT'D)

2.								
	N99329	DEBRA	22 13	6Ø	✓	CDS	V28Ø TXO /14 IRW	43Ø6
	C182/T T124 G131 22 <b>226</b> Ø1	215Ø	13   2214 TX0	- -				
	N1762T	АСН	22 <sup>Ø9</sup>	8Ø	<b>✓</b>	CDS	762 TXO 714 HBR	1534
	C185/T T135 G142 22 Ø <b>76</b> Ø1	2110	Ø9 22Ø9 TX0	-				

Time is 2221 your answer	equesting a clin	nb to 10,000'.	Can you issue	this clearance	e? Explain

### PRACTICE EXERCISE 3: APPLYING OPPOSITE COURSE SEPARATION



#### **Purpose**

Apply opposite course longitudinal separation

#### **Materials**



- Practice exercise 3 from Lesson 1 handout
- Pen or pencil

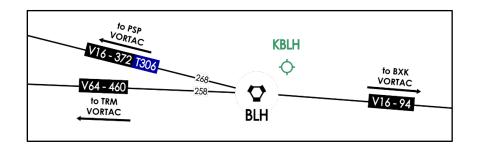
#### **Directions**

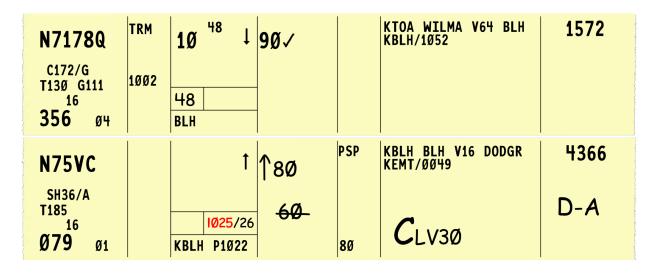
This exercise takes approximately 20 minutes to complete. Scan the map and flight strips. Determine if longitudinal separation can be established. Write your answers to questions 1-2 in the space provided.

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## PRACTICE EXERCISE 3: APPLYING OPPOSITE COURSE SEPARATION (CONT'D)

1.



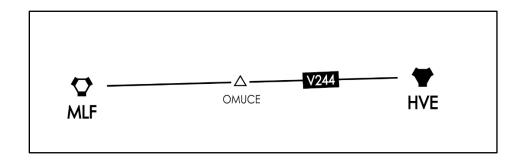


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# PRACTICE EXERCISE 3: APPLYING OPPOSITE COURSE SEPARATION (CONT'D)

ime is 1034. N7178Q requests lower. How can you provide separation?	

2.



N14HJ	HVE	Ø1 <sup>14</sup>	160 ✓	EWM	KGUC HBU V244 TPH KTPH/Ø221	1534
PC12/A T18Ø G194 23 773 Ø4	ØØ41	I4 MLF	-		RP OMUCE/58	
N161JW	TFD	ØØ 43	17Ø <b>/</b>	HVE	KCDC V235 MLF V244 MTK KMTJ/Ø136	2654
BE20/A T230 G215 23 <b>226</b> 03	Ø231	43 ØØ43 MLF	_		RP OMUCE/58	

Time is 0058. N161JW is requesting lower. Can you issue the clearance? Explain your answer.