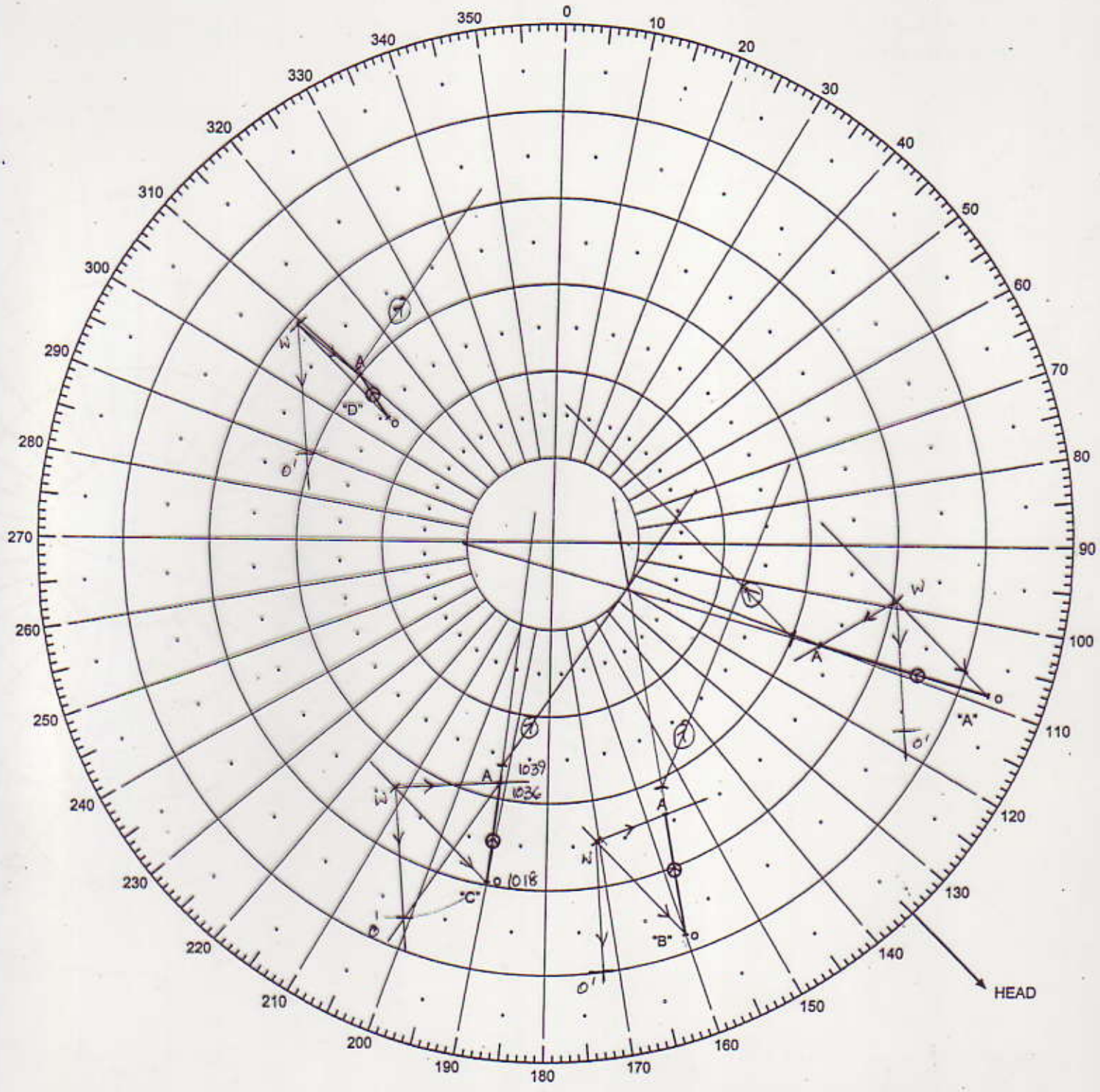
(This Worksheet must be returned with your answer book)

RADAR PLOTTING SHEET



Range Scale 0 1 2 3 4 5 6 7 8 9 10 11 12

(This is not a metric scale)

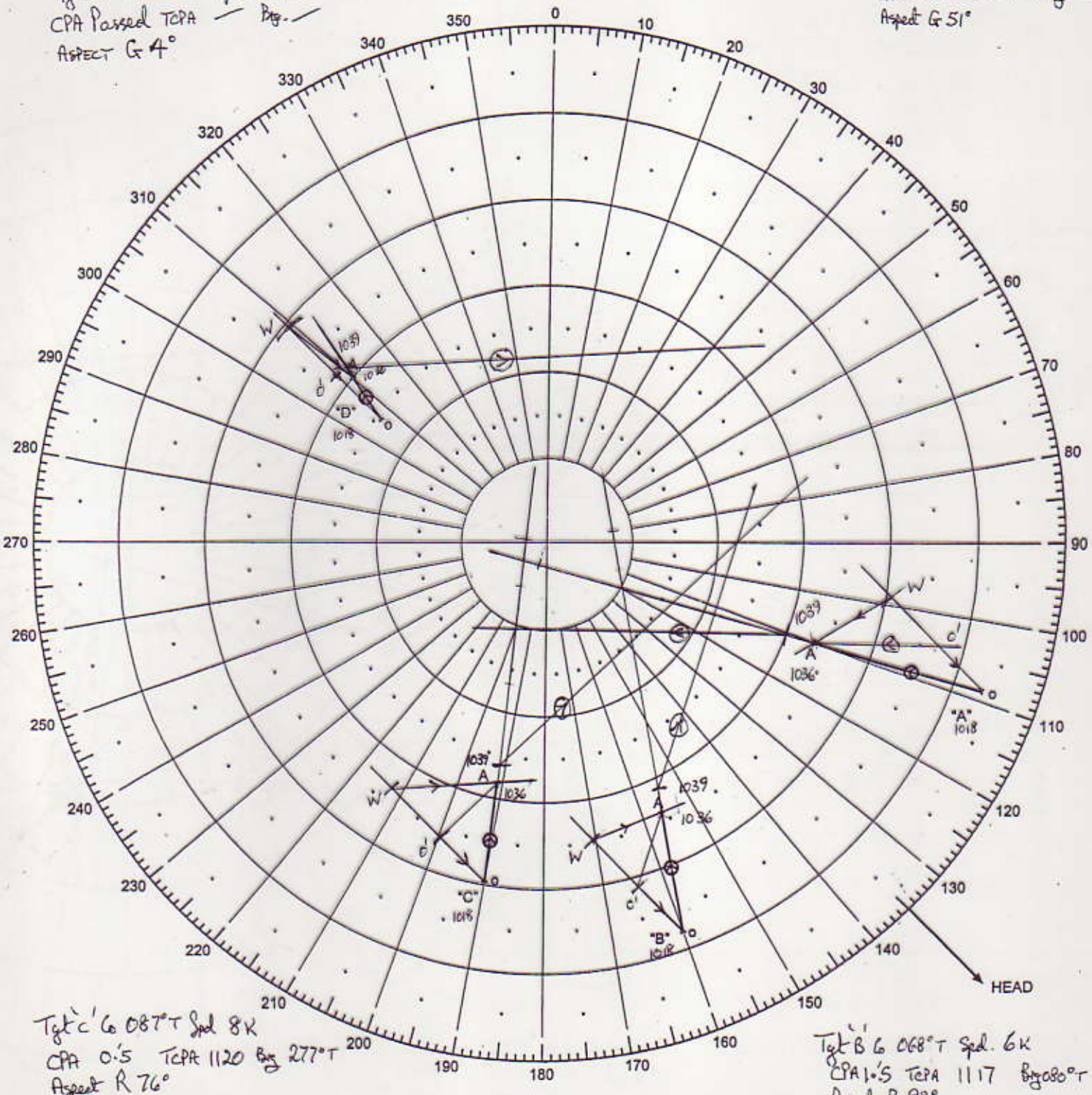
OR A/C To 175°T (40° to Stb'd) (SEE TGT 'C')

Signature of Candidate _____

Examination Centre _____

(This Worksheet must be returned with your answer book)

RADAR PLOTTING SHEET



Range Scale 0 1 2 3 4 5 6 7 8 9 10 11 12

(This is not a metric scale)

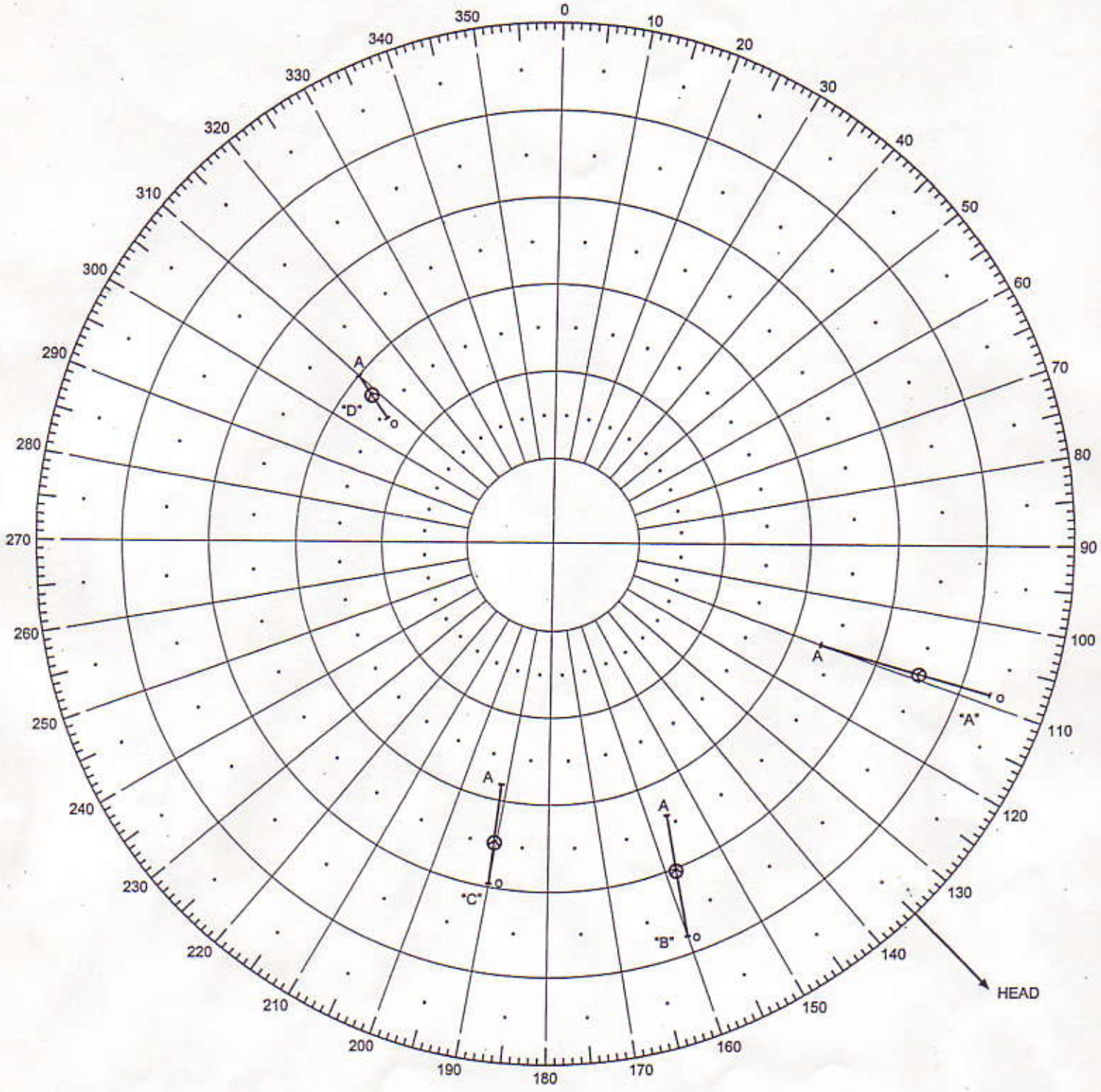
EITHER REDUCE TO 5.2K (SEE TGT 'A')

Signature of Candidate .....

Examination Centre .....

(This Worksheet must be returned with your answer book)

RADAR PLOTTING SHEET



Range Scale 0 1 2 3 4 5 6 7 8 9 10 11 12

(This is not a metric scale)

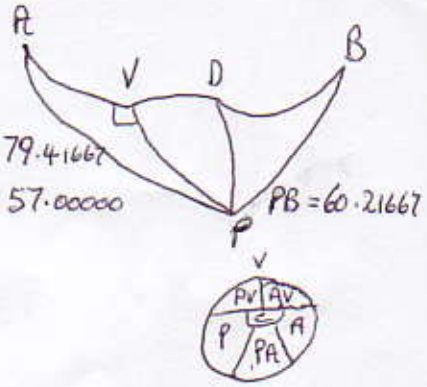
Signature of Candidate .....

Examination Centre .....

Q1. Distance to use 420 t = $\frac{420}{28} \times 24 \times 14.8 = 5328$ n.m.

$\text{Cos AV} = \frac{\text{Cos PA}}{\text{Cos PV}} = \frac{\text{Cos } 79.41667}{\text{Cos } 57.00000}$ ∴ AV = 70.29216 = 4217.53 n.m

Parallel Dist = 1110.47



for Dlg of V: $\text{Cos P} = \frac{\text{Tan PV}}{\text{Tan PA}} = \frac{\text{Tan } 57}{\text{Tan } 79.41667}$ ∴ P = 73.27884° = 73° 16.73 E

for Dlg V to D: $\text{Dlg} = \frac{\text{Dep}}{\text{Cos het}} = \frac{1110.47}{\text{Cos } 33}$

∴ Dlg = 1324.08 E

Start Long	142°	13.00 E
	215	29.73 E
Long V	144°	30.27 W
Dlg V to D	22°	04.08 E
Long D	122°	26.19 W @ Lat 33° S
Long B	071°	21.00 W
D. long DB	51°	05.2 E 51.08667

Cos DB = Cos P Sin PD Sin PB + Cos PD Cos PB = Cos 51.08667 Sin 57 Sin 60.21667 + Cos 57 Cos 60.21667

DB = 43.30156 = 2598.1 n.m.

\+ 5328.0 n.m.

a) Total Distance 7926.1 n.m.

b) 7926.1 @ 14.8 K = $\frac{7926.1}{14.8 \times 24}$ = 22.31447 days = 22d 07h 32.8m

Start time April	10 dys	10 hr	00 m
St. tm All.		− 10 hr.	(N.A. 1976)
Start GMT	10 dys	00 hr	00 m
Steam time	22 dys	07 hr	33 m
ETA GMT: May	02 dys	07 hr	33 m
St time Chile		− 04 hr	
ETA Standard Time May	02 dys	03 hr	33 m