

JULY 02 Q. 1.

a) GREAT CIRCLE DISTANCE - SYDNEY TO W.P.-A = 2737.7  
" " " W.P.-A TO PAPEETE = 560.4  
TOTAL DISTANCE = 3298.1

b) INITIAL COURSE LEAVING SYDNEY = N 89° 21' 3 E

c) POSITION OF THE VERTEX = 33° 50' 3 S  
150° 09' 5 E

d) DISTANCE OFF MACAULEY IS = 19.5  
D.LAT = 30° 14' S ~ 30° 33' 5 S = 19.5.

Nadeem

JULY '02

Q 2

(a)	B	C
Co.	196° T	335° T
SPD	9.8 KTS	16.8 KTS.
CPA	0.8	0
TCPA	19 MIN	60 MIN
BCPA	262° T	155° T.
ASPECT	R 96°	END ON.

(b) SET = 220.5 T      RATE = 4 KNOTS.

(c) NEW COURSE = 355°(T) (20° TO STARBOARD)

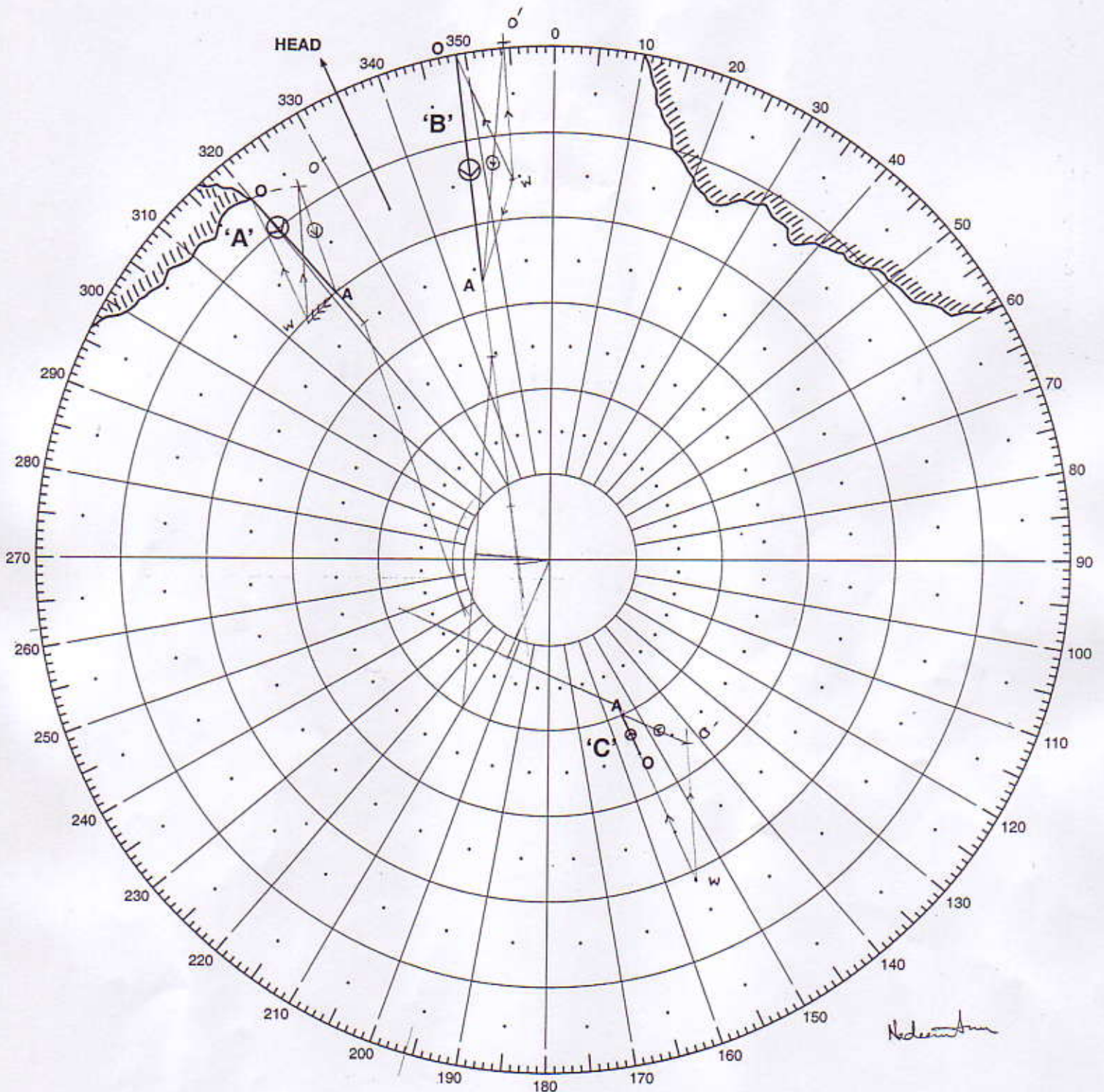
(d)	B	C
CPA	1.7	2.25
TCPA (AFTER ALTERATION)	12 MIN	26 MIN.

Nadeem

WORKSHEET Q.2

(N.B. This Worksheet must be returned with your answer book)

# RADAR PLOTTING SHEET



(This is not a metric scale)

Signature of Candidate .....

Examination Centre .....

JULY '02

Q. 3.

FROM PLANETARY DIAGRAM:

PLANET BRG  $064^{\circ}$  G IS MERCURY

PLANET BRG  $075^{\circ}$  G IS JUPITER.

DR  $53^{\circ} 27' N$ ,  $030^{\circ} 11' W$

15 JUNE 1976

0509 GMT.

WORKING FOR JUPITER:

0500 GHA  $291^{\circ} 57.4$

Dec N  $16^{\circ} 30.3$

INC  $2^{\circ} 15.0$

$v_z = 1.9$

$v_{CORR} = 0.3$

$d_z = 0.1, z_0$

0509 GHA  $294^{\circ} 12.7$

LONG  $030^{\circ} 11' W$

LHA  $264^{\circ} 01.7$

$A_z = 0.145 N$

$B_z = 0.30 N$

$C_z = 0.445 N$

$A_z = N 75^{\circ}.2 E$

T. BRG  $= 075^{\circ}.2$

G. BRG  $= 075^{\circ}$

G. ERROR  $= 0^{\circ}.2 L. (NEG)$

Nadeem In