



⑥ distance travelled towards east = 20 km  
 distance travelled towards west = -30 km  
 distance at end. =  $20 + (-30)$   
 = -10 km  
 $\therefore$  Rita is 10 km towards west of A

⑦ i Sum of diagonal, =  $5 + (-2) + (-3)$   
 = 0  
 sum of diagonal<sub>2</sub> =  $0 + (-2) + (-4)$   
 = -6  
 $\therefore 0 \neq -6$   
 $\therefore$  no

ii Sum of each row = Sum of each col.  
 = sum of each diagonal  
 = -9  
 $\therefore$  yes

⑧ LHS =  $a - (-b)$                       RHS =  $a + b$   
 Put  $a = 21, b = 18$   
 $= 21 - (-18)$                                $= 21 + 18$   
 $= 21 + 18$                                        $= 39$   
 $= 39$   
 $\therefore$  LHS = RHS  
 $\therefore$  verified