BW	Agi	S6' L		i ting	1.	· 4	many provide an addition of the second		***************************************	1	· ·	************
GT.	i	T. 1	o	1	3	57			[0]	2	-17	
	A:		2	-5	5	1	7	AT =	1	-5	3	
		L	-1	5	Ó	2	а		3	5	0	
				1			0		L 5	1	-2	
V1	0.0	1.	0	T		7.	_			6		

$$Q_{AA} = 0.0 + 1.1 + 3.3 + 5.5 = 35$$

$$Q_{A2} = 0.2 + 1.(-5) + 3.5 + 5.1 = 15$$

$$Q_{A3} = 0.(-1) + 1.3 + 3.0 + 5.(-2) = -7$$

$$Q_{2A} = 2.0 - 5.1 + 5.3 + 1.5 = 15$$

$$Q_{2A} = 2.2 + (-5)^{2} + 5^{2} + 1^{2} = 55$$

$$Q_{2A} = 2.2 + (-5)^{2} + 5 + 1.5 = 15$$

$$Q_{22} = 2.2 + (3) + 3.3 + 5.0 + 4.(-2) = -1.9$$

$$Q_{23} = 2.(-1) - 5.3 + 5.0 + 4.(-2) = -1.9$$

$$Q_{34} = -1.0 + 3.1 + 0.3 - 2.5 = -7$$

$$Q_{32} = -2 - 1.5 + 0 - 2 = -1.9$$

$$Q_{33} = 1 + 9 + 0 + 9 = 1.4$$

$$Q_{33} = 1 + 9 + 0 + 9 = 1.4$$

$$a_{32} = -2 - 15 + 0 - 1 = -19$$

$$\begin{bmatrix}
a_{11} & a_{12} & a_{13} & a_{14} \\
a_{21} & a_{22} & a_{23} & a_{24} \\
a_{31} & a_{32} & a_{33} & a_{34} \\
a_{41} & a_{42} & a_{43} & a_{44}
\end{bmatrix}$$

 $\Rightarrow A.A^{T} = \begin{vmatrix} 35 & 15 & -77 \\ 15 & 55 & -19 \end{vmatrix}$ 

$$q_{14} = 0^{2} + 2^{2} + (-1)^{2} = 5$$

$$q_{12} = 0.1 + 2.(-5) - 1.3 = -1.3$$

$$q_{13} = 0 + 2.5 + 0 = 1.0$$

$$q_{14} = 0 + 2.1 - 1.(-2) = 4$$

$$a_{21} = 0$$
  $-5.2 + 3.(-1) = -13$ 
 $a_{22} = 1 + 5^2 + 3^2 = 35$ 
 $a_{23} = 1.3 -5.5 + 3.0 = -22$ 
 $a_{24} = 1.5 -5.1 + 3.(-2) = -6$ 

$$a_{34} = 3.0 + 5.1 + 0.1 = 10$$
 $a_{44} = 5.0 + 1.2 = 2.1 = 4$ 
 $a_{32} = 3.1 + 5.5 = 0.0 = 34$ 
 $a_{43} = 5.3 + 1.5 = 2.0 = 20$ 
 $a_{34} = 3.5 + 5.1 + 0.1 = 20$ 
 $a_{44} = 5.5 + 1.1 - 2.1 = 20$ 
 $a_{44} = 5.5 + 1.1 - 2.1 = 30$ 
 $a_{45} = 5.5 + 1.1 - 2.1 = 30$ 
 $a_{46} = 5.5 + 1.1 - 2.1 = 30$