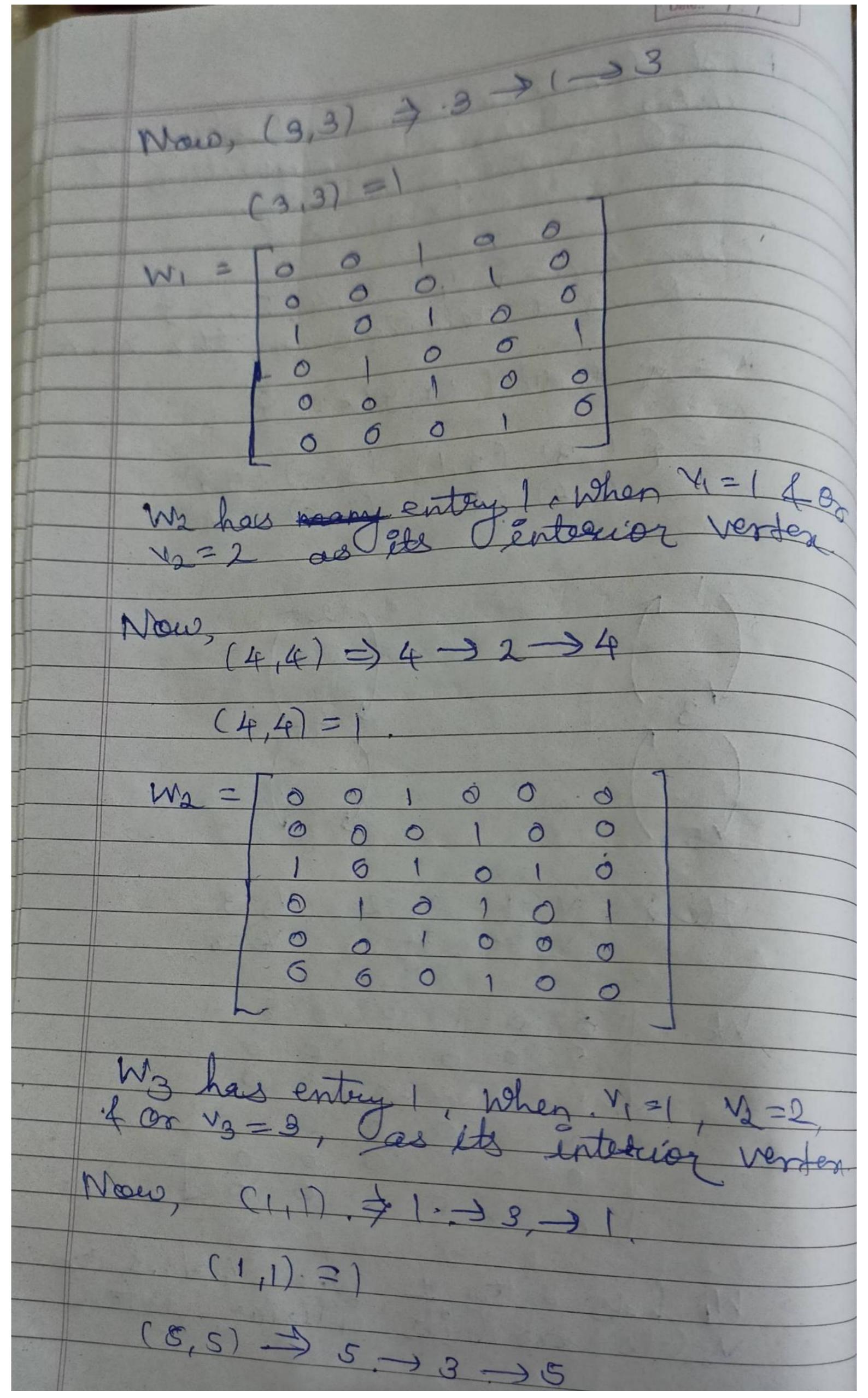
Rusing Warshall's algorithm.

A= & 1, 2, 3, 4, 5, 63.

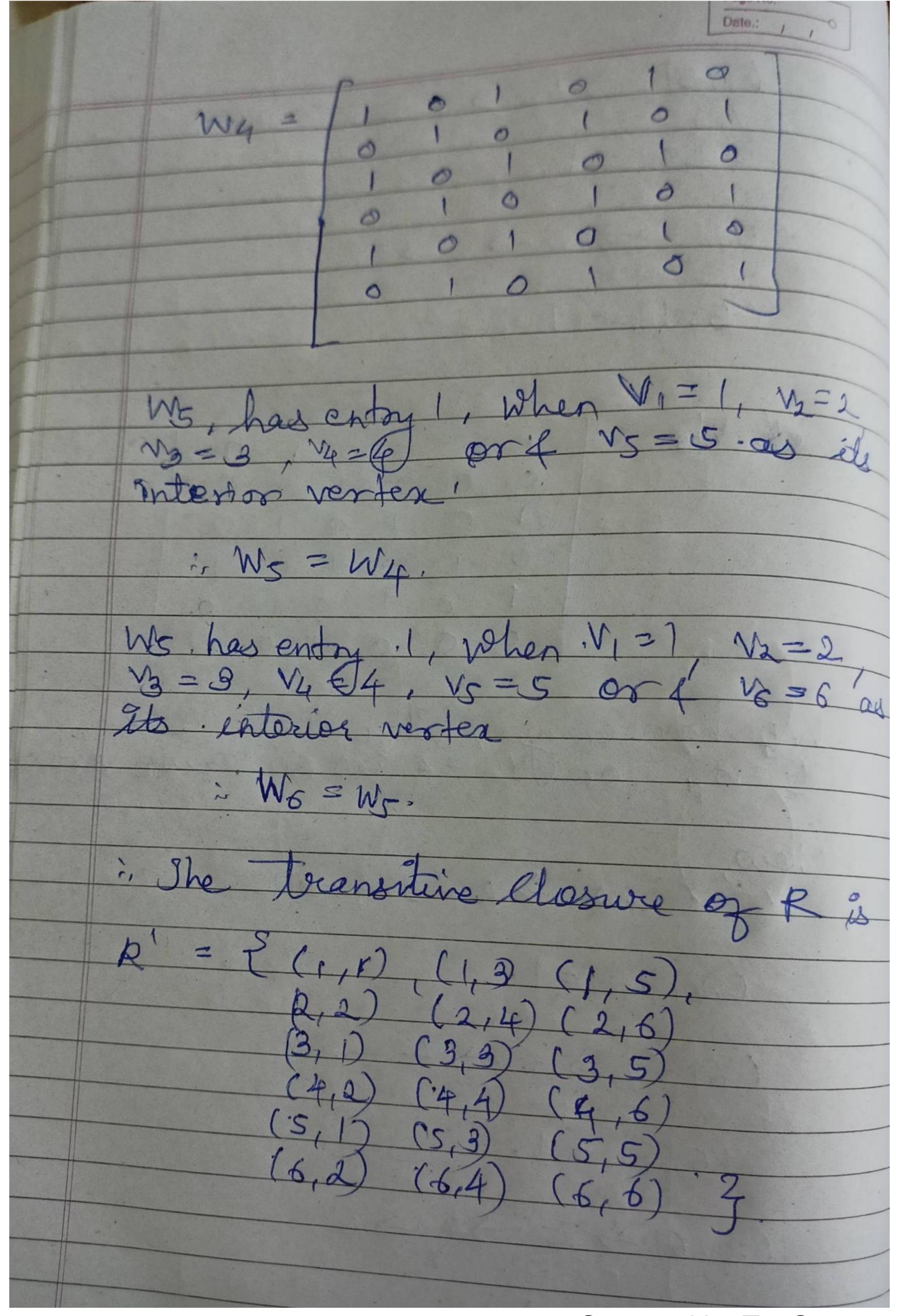
R= & (x, y). | 1x-y).= 23. Given: A = ? 1,2,8,4,5,63 K is a relation on the set A R= & (x,9) / 1x-y1=23. R = 5(1,3)(3,1);(3,-5)(5,3) (2,4)(4,2);(4,6)(6,4)



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Dete: 1 1
(1,5) => 1,-> 3->5
(1,5)=1
(5,1) -> 5->3->1.
(5,1)=1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
We have entry 1, when $V_1 = 1$, $V_2 = 2$ $V_3 = 3$, or $V_4 = 4$ as interior vertex
Now, $(2/2) \Rightarrow 2 \rightarrow 4 \rightarrow 2$
(2,2)=1.
$(6,6) \Rightarrow 6 \rightarrow 4, \rightarrow 6.$
(6,6)=1.
$(2,6) \Rightarrow 2 \rightarrow 4 \rightarrow 6$
(2,6)=1.
$(6,2) \Rightarrow 6 \rightarrow 4 \rightarrow 2$
(6,2)=1

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