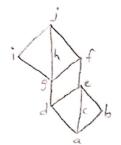
5) b) Prove that the given Hasse diagram lattice and also verify, it is distributive lattice or not?



Soli

V	a	Ь	С	d	e	+	5	h	ì	j
a	a	Ь	C	4	e	f	3	h	ì	j
6	Ь	b	e	e	Je	∯j	t	j	j	J
C	C	e	c	e	e	j	f	j	j	j
d	٦	e	e	٦	e	j	9	3	j	j
e	e	e	e	e	e	f	t	j	Ĺ	j
f	f	j	j	j	f	f	f	`j`	j	j
9	9	f	f	9	£	f	9	h	j	j
h	h	j	j	i	j	j	h	h	j	1,
i	ì	j	j	j	ز	j	j	j	ĵ	j
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٨	a	Ь	c	9	e	t	5	4	)	j
a	a	a	Q	a	Q	a	a	a	a	م
Ь	٥	Ь	a	a	Ь	a	a	a	a	Ь
C	۵	a	c	a	c	c	a	a	۵	c
d	a	a	a	9	٦	a	9	4	1	9
e	a	Ь	C	4	e	e	9	٦	٩	و
f	a	a	C	a	e	£	9	3	9	ŧ
3	a	a	a	d	J	9	9	9	9	٩
h	۵	a	a	٦	٦	9	9	h	9	4
i	a	a	a	٦	٦	9	3	9	i	ì
j	a	Ь	C	4	e	f	9	4	ì	ì

.. The given Hasse diagram is a lattice

To prove, it is a distributive lattice

$$f = f$$

It is a distributive lattice

It is a distributive lattice

It is a distributive (affice

.. The given Hasse diagram is a distributive lattice