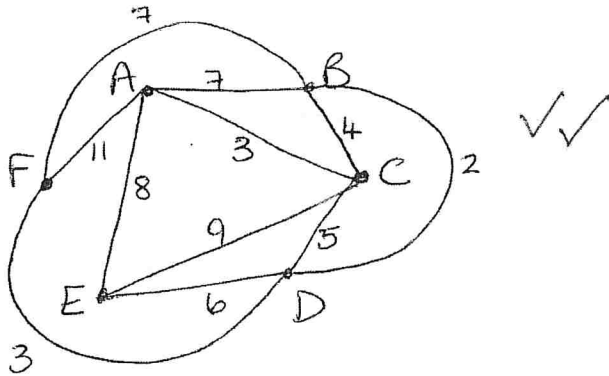
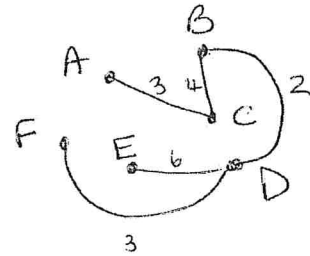


KRUSKAL'S ALGORITHM
SOLUTIONS

1 a)



Try to draw without crossing edges (to avoid thinking there is a cycle where there isn't)



b)	choice	weight (in km)	
	BD	2	
or	↗AC↖	3	
	↘FD↙	3	✓✓

	BC	4	
⑥	DC	5	makes a cycle, reject ✓
	DE	<u>6</u>	
		<u>18</u>	

length of m.s.t. = 18 km ✓

2) order of choice

edge	weight
FH	12
AD	15
DE	17
CE	19

~~DC~~ ~~20~~ reject

or

↗ BC 21

↘ EG 21

~~AC~~ ~~24~~ reject ✓✓

CF 25

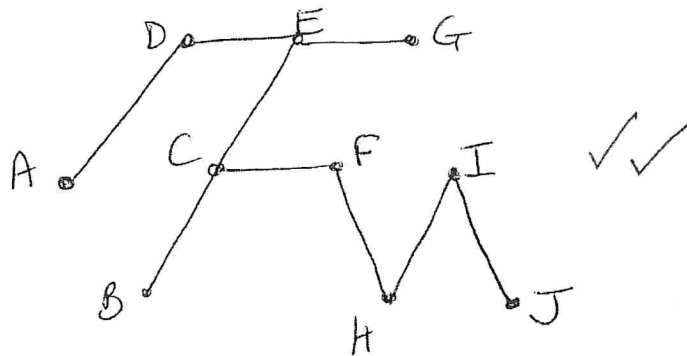
↖ ~~IF~~ ~~30~~ reject

↘ HI 27

~~IF~~ ~~30~~ reject

IJ 31

185



④