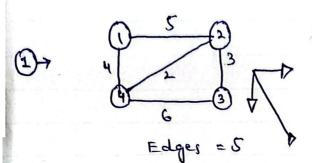
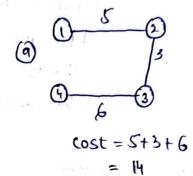
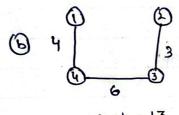
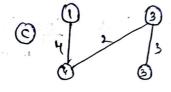
$$7C_S - 2 = \frac{7!}{5!(7-5)!} - 2$$

- Minimum Cost Spanning Tree









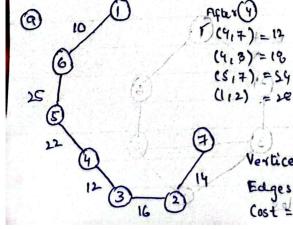
$$cost = 13$$

Cost = 9

- Prim's

 Prince's Algorithm.
- -> Krusnals Algorithm.

	max. no. of Edges =	<u>n(n-1)</u>	= 4(4-1)=	6
67	is to 100		9:379	

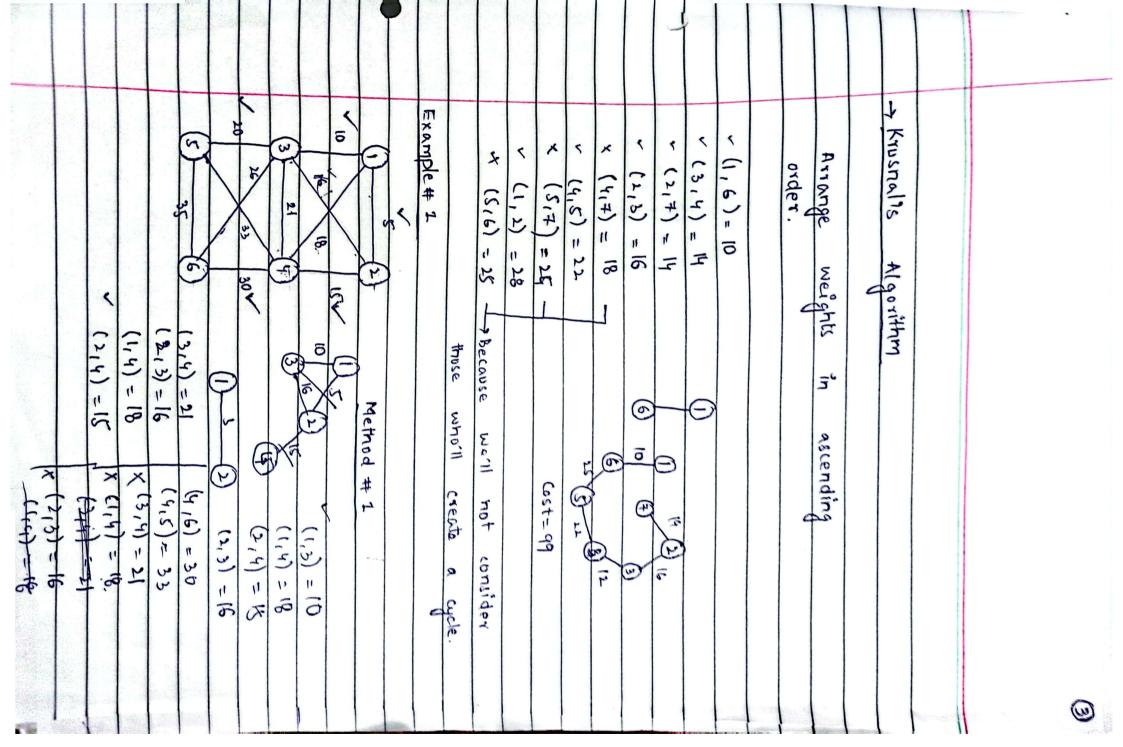


$$\begin{array}{lll}
\text{Afte}(3) & \text{Afte}(3) \\
\text{(3,2)} = 16 & \text{(2,7)} = 19, \\
\text{(9,7)} = 18 & \text{(1,2)}/(2,1) = 28, \\
\text{(5,7)} = 29 & \text{(9,7)} = 18, \\
\text{(1,1)} = 28 & \text{(5,7)} = 29,
\end{array}$$

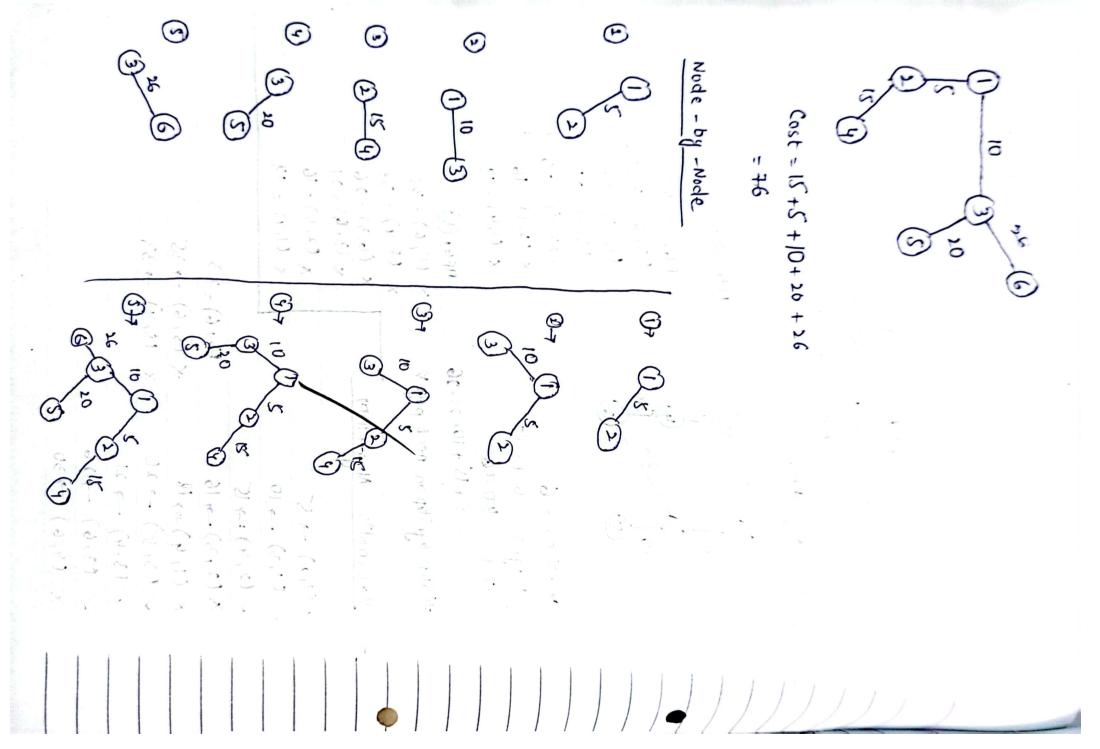
Vertices = 7 (complete)

Edges = 7-1 = 141-1 = 6 (complete)

Cost = 110+25+22+12+16+14 = 99



		13 - Dec-2013				
	ADA - Qu	17				
	Zakir Ma	doop				
	०५०१०॥४०८८					
-	Prim's Algorithm :-					
	(1) (2)	After (6)				
	10 15					
-	(3) (4)	(6,5)=35				
	20 26 30	(316)=3326				
	(5)	(415)= 33				
		(3/4) = 21				
	Vertices = 6	x (2,3) = 16				
	Edges = 6-1=5	x (1,4) = 18				
	Cost = \$076					
	= 5+15+10+20+36	AFE: (5)				
	#Step by Step on next page &	X (5,6) = 35				
_)		x (5,4) = 33				
-7	Krusnal's Algorithm	x (6,3) = 26 x (3,6) = 21				
	(1,2) -> 5	x (213) = 16				
	~ (1,3) -> 10	X (1,4) = 18				
	12,4) = 5 7 9					
		1-33				
		5) -7 35				
	1315) -120 1 x 15,4					
	x (3,4) - 21					
	/ (3,6) -> 26					
	x (4,6) 730	·				



1					- (
7	Prim's Node - by - No	de			
	U			()	
<u>(r</u>	(1) 5 (2)	3-> After (1)			r.f.
		× (113) -> 11	D	1.51	
		(1,4) = 1			
(3)	(1)(3)	(2,4) = 1			
	0 0	(213) = 1			
		(1)/2/)	7,
(3)	(2) 15 (4)	(3)-> AFti (3)	757	-(1)	
	B O	(5,5) = 2	0		
		(3,6) =		· P	
9	(3)(S)	(3,4) =	21		
		(213) =			
		V(2,4)= 13			
3	3-26	(1,4) = 1	B	<u> </u>	- 15
)	,				
	Cost = & +10+ (2+)0+36	(9→ AFE+(4)			
	- 76	(4,6)=		4.0	
		(415) = 3		•	
	After (S)-7	(3/4) = 1 × (1/4) = 1			
	((,6) = 35 (4,5) = 33	× (3,5) = 3			
	(4.6) = 30	(3,6) = :			
	V (3,6) = 26	x (2,3)=1			
	x (3,4) = 21				
2	X(1,4)=18				
	x (213) = 16 x (1,4)=	18			

