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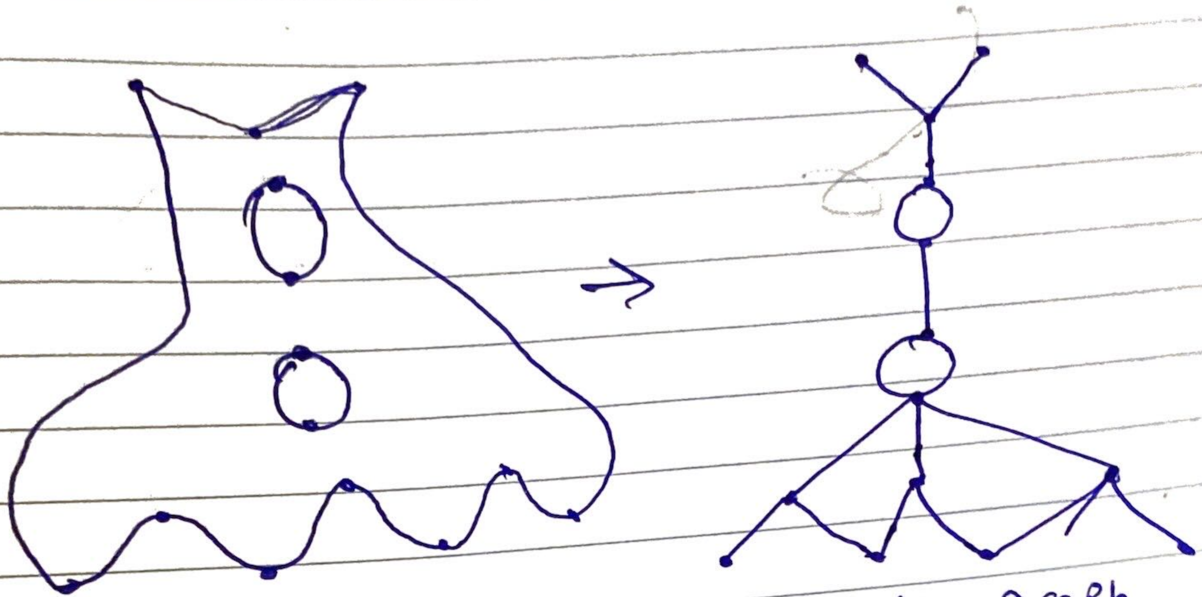
1)



$2T^2$ Rebbs graph

$C_0 - C_1 + C_2 = \chi(2T^2)$

C_0 is the number of critical points at the local minima

C_1 is the number of saddle points

C_2 is the no of critical point at local maxima.

Hence $C_0 = 4$, $C_1 = 8$, $C_2 = 2$

$C_0 - C_1 + C_2 = 4 - 8 + 2 = -2$

The total no. of nodes are $n = n_1 + n_3$

where $n_1 = C_0 + C_2$ & $n_3 = C_1$

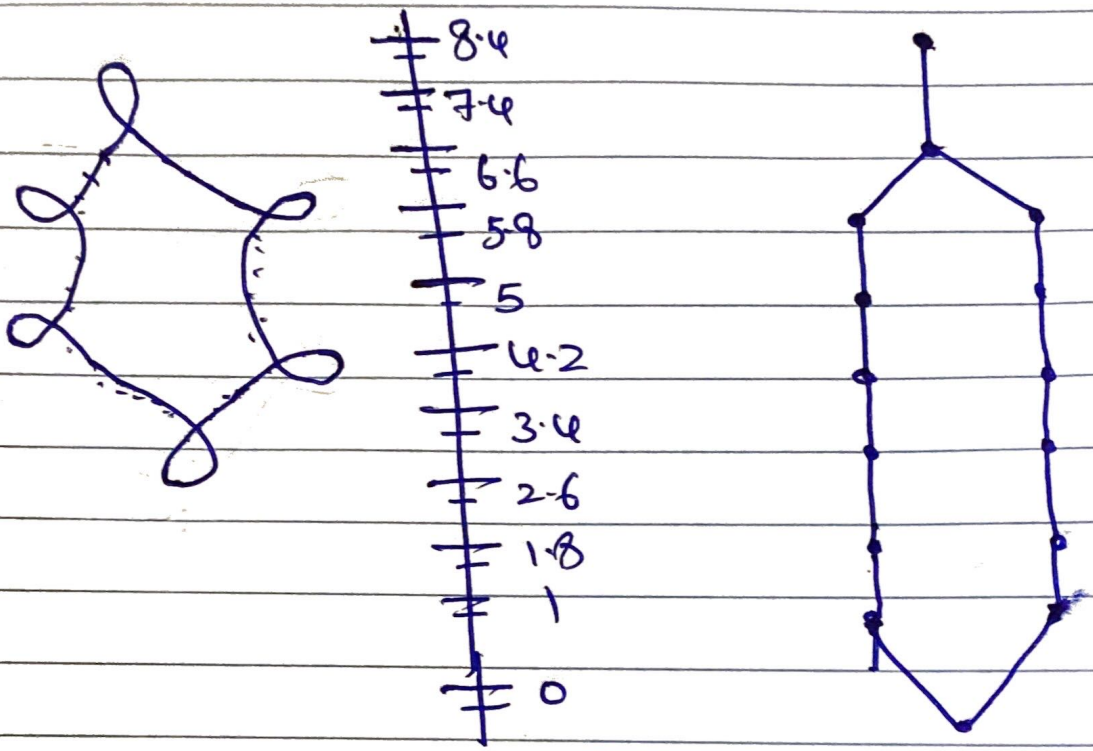
$n_1 = 6$, $n_3 = 8$

There are total of 14 nodes

The total no. of arcs are $M = 1/2(n_1 + 3n_3)$

$= 30/2 = 15$

2)



20.1. overlapping