

Benes Network of dimension one $B(1)$

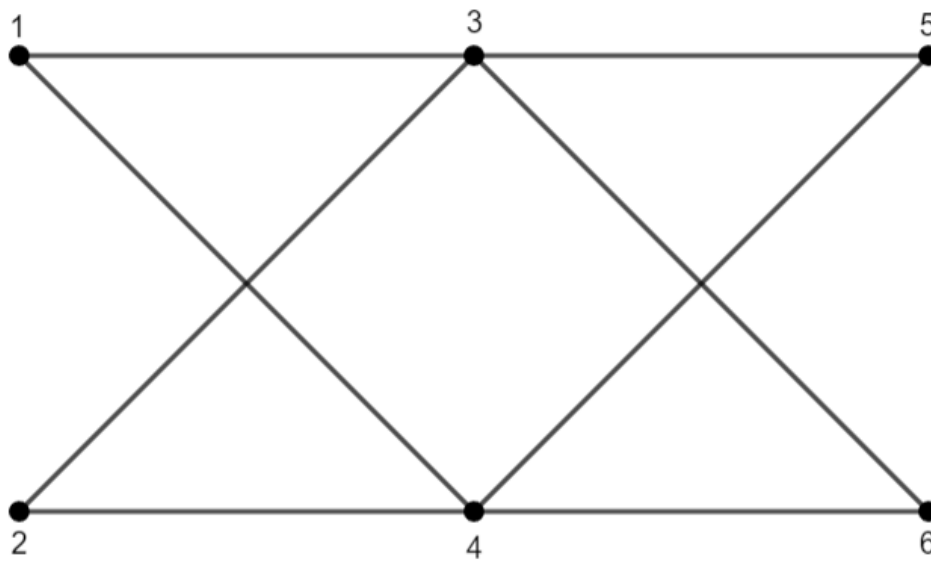


Fig 1. Normal representation of Benes $B(1)$

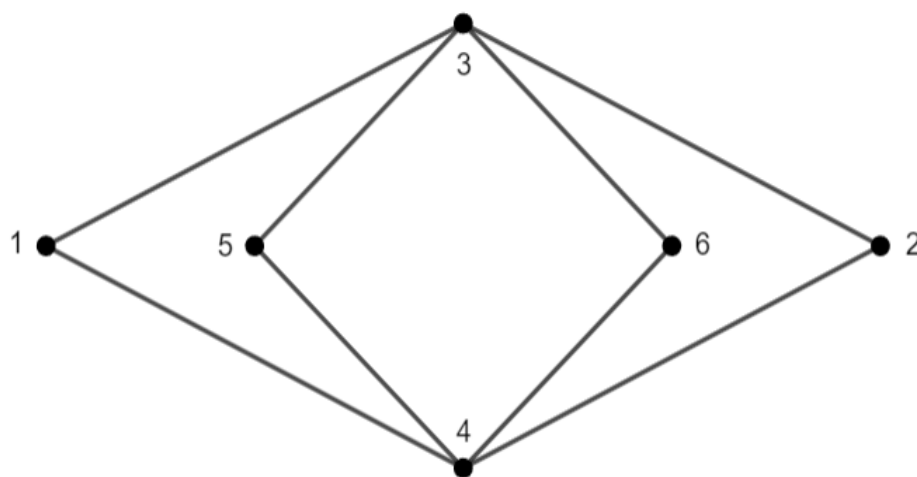


Fig 2. Diamond representation of Benes $B(1)$

Metric dimension - 4
BIGS Index - 8

Extracted Metric Bases using BIGS algorithm

1. $\{1, 2, 3, 5\}$
2. $\{1, 2, 3, 6\}$
3. $\{1, 2, 4, 5\}$
4. $\{1, 2, 4, 6\}$
5. $\{1, 3, 5, 6\}$
6. $\{1, 4, 5, 6\}$
7. $\{2, 3, 5, 6\}$
8. $\{2, 4, 5, 6\}$