BETA INDEX

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Beta Index (β):

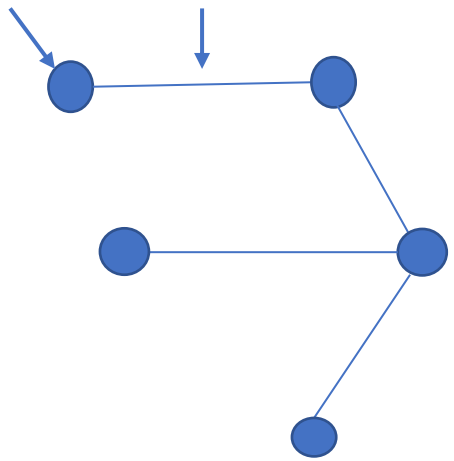
- The beta index is a very simple measure of connectivity, which can be found by dividing the total number of arcs in a network by the total number of nodes, thus:
- β = arcs/ nodes=e/v

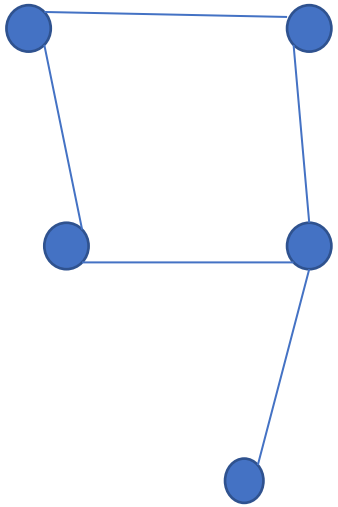
Where e= number of edges/links

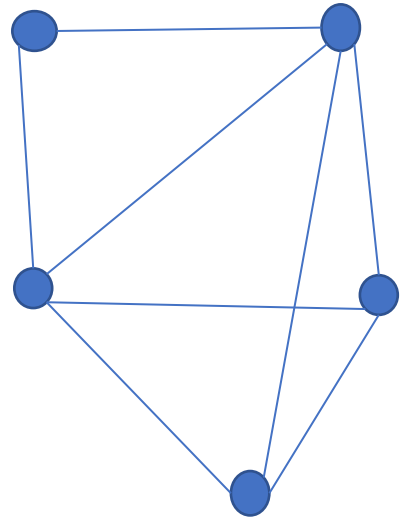
v= number of vertices/nodes

- This simple measure was developed by Kansky in 1963
- The greater the value of β, the greater the connectivity. As transport networks develop and become more efficient, the value of β should rise

- v e







- β= e/v=4/5=0.8 β= e/v=5/5=1.0 β= e/v=8/5=1.6
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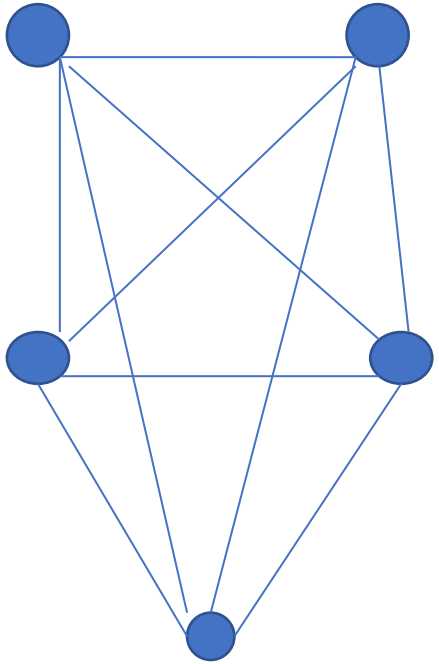
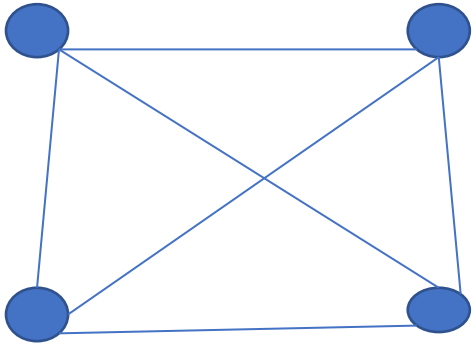


β= e/v=10/5=2.0



β= e/v=6/4=1.5