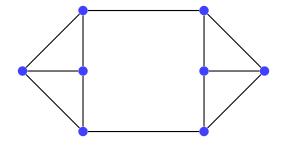
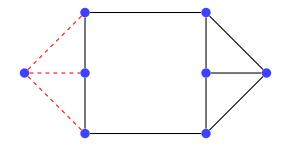
# Karger's Min-Cut Algorithm

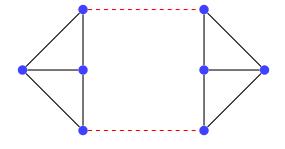
## Cuts in graphs



#### Cuts in graphs: A non-minimum cut



#### Minimum Cut



#### Facts about minimum cut

- Minimum cut ≤ Minimum degree
- Computed by max-flow algorithm
- Polynomial time
- Karger: Simple randomized algorithm

- lacksquare Pick a random edge uv
- $oldsymbol{o}$  Merge u and v into a single vertex.
- Repeat until 2 vertices.

