# Measuring the Presence of Structural Holes, pt 2
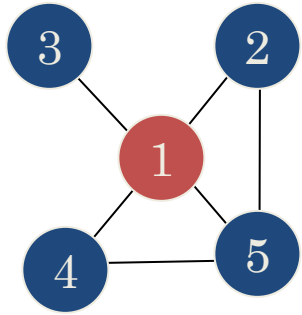


E = Network Size

     - Redundancies

Efficiency = $\dfrac{\text{Effective Size}}{\text{Size}}$

$$\sum_{j}\left[1-\sum_{q}p_{iq}m_{jq}\right]$$

## Node 1

$4 \; - \; (\Sigma = 1) = 3$

|   | pm |
|---|-----|
| 1 |     |
| 2 | 1/4 |
| 3 | 0   |
| 4 | 1/4 |
| 5 | 2/4 |

| Node | Size | Effective Size | Efficiency |
|------|------|----------------|------------|
| 1 | 4 | 3 | .75 |
| 2 | 2 | 1 | .5 |
| 3 | 1 | 1 | 1 |
| 4 | 2 | 1 | .5 |
| 5 | 3 | 1.67 | .56 |