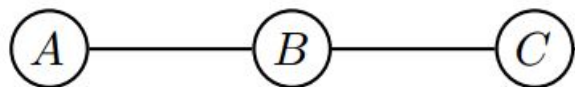


# Assignment

Given a MN over 3 binary random variables, and parameterization by two factors on max cliques.



| $a$ | $b$ | $\phi_1(a, b)$ |
|-----|-----|----------------|
| 0   | 0   | 2              |
| 0   | 1   | 4              |
| 1   | 0   | 6              |
| 1   | 1   | 8              |

| $b$ | $c$ | $\phi_2(b, c)$ |
|-----|-----|----------------|
| 0   | 0   | 7              |
| 0   | 1   | 5              |
| 1   | 0   | 3              |
| 1   | 1   | 1              |

1. What is the partition function?
2.  $P(0,1,0)=?$