# b)

| Nó A   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 7 | 5 | | C | 7 | 7 | 0 | 2 | | D | 8 | 5 | 2 | 0 | | Nó B   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 7 | 5 | | C | 7 | 7 | 0 | 2 | | D | 8 | 5 | 2 | 0 | | Nó C   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 7 | 5 | | C | 7 | 7 | 0 | 4 | | D | 8 | 5 | 2 | 0 | | Nó D   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 7 | 5 | | C | 7 | 7 | 0 | 2 | | D | 8 | 5 | 4 | 0 | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nó A   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 7 | 5 | | C | 7 | 7 | 0 | 4 | | D | 8 | 5 | 4 | 0 | | Nó B   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 9 | 5 | | C | 7 | 7 | 0 | 4 | | D | 8 | 5 | 4 | 0 | | Nó C   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 7 | 5 | | C | 7 | 9 | 0 | 4 | | D | 8 | 5 | 4 | 0 | | Nó D   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 7 | 5 | | C | 7 | 7 | 0 | 4 | | D | 8 | 5 | 4 | 0 | |
| Nó A   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | 8 | 5 | 4 | 0 | | Nó B   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | 8 | 5 | 4 | 0 | | Nó C   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | 8 | 5 | 4 | 0 | | Nó D   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | 8 | 5 | 4 | 0 | |

# c)

| Nó A   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | ∞ | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | ∞ | 5 | 4 | 0 | | Nó B   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | ∞ | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | ∞ | 5 | 4 | 0 | | Nó C   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | ∞ | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | ∞ | 5 | 4 | 0 | | Nó D   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | ∞ | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | ∞ | 5 | 4 | 0 | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nó A   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | ∞ | 5 | 4 | 0 | | Nó B   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | ∞ | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | ∞ | 5 | 4 | 0 | | Nó C   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | ∞ | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | ∞ | 5 | 4 | 0 | | Nó D   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | ∞ | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | 8 | 5 | 4 | 0 | |
| Nó A   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | 8 | 5 | 4 | 0 | | Nó B   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | 8 | 5 | 4 | 0 | | Nó C   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | 8 | 5 | 4 | 0 | | Nó D   |  | A | B | C | D | | --- | --- | --- | --- | --- | | A | 0 | 3 | 7 | 8 | | B | 3 | 0 | 9 | 5 | | C | 7 | 9 | 0 | 4 | | D | 8 | 5 | 4 | 0 | |