Section B

3a)

|  |  |  |
| --- | --- | --- |
| 1 | A → B C | Given |
| 2 | B C → C | From Reflexivity |
| 3 | A → C | From Transitivity of 1 and 2 |
| 4 | B C → B | From Reflexivity |
| 5 | A → B | From Transitivity of 1 and 4 |

b)

R

|  |  |  |
| --- | --- | --- |
| α | 𝝱 | 𝛾 |
| 1 | 2 | 3 |
| 1 | 2 | 4 |