Julia Diliberto

CST 370

Homework 8

February 21, 2016

1a.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 |
| 3 | 0 | 1 | 0 | 1 | 0 | 0 |
| 4 | 0 | 0 | 1 | 0 | 1 | 1 |
| 5 | 1 | 1 | 0 | 1 | 0 | 0 |
| 6 | 0 | 0 | 0 | 1 | 0 | 0 |

<EMPTY>1b.

|  |  |
| --- | --- |
| 1 | 2 |
| 1 | 5 |
| 2 | 3 |
| 2 | 5 |
| 3 | 4 |
| 4 | 5 |
| 4 | 6 |

2.

3a. from U

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| U | V | W | X | Y | Z |
| 0 | ∞ | ∞ | ∞ | ∞ | ∞ |
| 0 | U/5 | U/9 | U/9 | ∞ | ∞ |
| 0 | U/5 | V/7 | U/9 | ∞ | ∞ |
| 0 | U/5 | V/7 | U/9 | W/12 | W/13 |
| 0 | U/5 | V/7 | U/9 | W/12 | W/13 |
| 0 | U/5 | V/7 | U/9 | W/12 | W/13 |

3b. from V

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| U | V | W | X | Y | Z |
| ∞ | 0 | ∞ | ∞ | ∞ | ∞ |
| V/5 | 0 | V/2 | V/7 | ∞ | ∞ |
| V/5 | 0 | V/2 | V/7 | W/7 | W/8 |
| V/5 | 0 | V/2 | V/7 | W/7 | W/8 |
| V/5 | 0 | V/2 | V/7 | W/7 | W/8 |
| V/5 | 0 | V/2 | V/7 | W/7 | W/8 |