SQA Assignment 2

**Problem 1**

V(G) = 3

|  |  |  |  |
| --- | --- | --- | --- |
| Path # | Path | C1 | C2 |
| 1 | 2-3-7-9-13-15 | F | F |
| 2 | 2-3-7-9-10-15 | F | T |
| 3 | 2-3-4-7-9-10-15 | T | T |

Legend: T = true, F = false, X = irrelevant

**Problem 2**

V(G) = 5

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Path # | Path | C1 | C2 | C3 | C4 |
| 1 | 2(1)-2(2)-3-14 | T | T | X | X |
| 2 | 2(1)-2(2)-5-8-10-14 | T | F | F | F |
| 3 | 2(1)-5-6-10-14 | F | X | T | F |
| 4 | 2(1)-5-8-10-11-10-14 | F | X | F | T/F |
| 5 | 2(1)-5-6-10-11-10-14 | F | X | T | T/F |

Legend: T = true, F = false, X = irrelevant

**Problem 3**

V(G) = 5

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Path # | Path | C1 | C2 | C3 | C4 |
| 1 | 2-14 | F | X | X | X |
| 2 | 2-3-2-14 | T/F | F | X | X |
| 3 | 2-3-4-8-3-2-14 | T/F | T/F | F | F |
| 4 | 2-3-4-5-3-2-14 | T/F | T/F | T | X |
| 5 | 2-3-4-8-9-3-2-14 | T/F | T/F | F | T |

Legend: T = true, F = false, X = irrelevant

**Problem 4**

V(G) = 6

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Path # | Path | C1 | C2 | C3 | C4 | C5 |
| 1 | 2-14-15-22 | F | X | X | F | X |
| 2 | 2-14-15-16-15-17-22 | F | X | X | T/F | F |
| 3 | 2-14-15-16-15-17-18-17-22 | F | X | X | T/F | T/F |
| 4 | 2-3-4-22 | T | F | X | X | X |
| 5 | 2-3-4-5-9-4-22 | T | T/F | F | X | X |
| 6 | 2-3-4-5-6-4-22 | T | T/F | T | X | X |

Legend: T = true, F = false, X = irrelevant