Ks 3 – VT 14

1a SANT R

1b Falskt R

1c SANT F

1d Falskt F

1e SANT R

1f Falskt F

0p

2a,

(1 4 2 7 6)(5)(6)

2b,

Det finns 9/3 unika sidoklasser

0 + H = {0, 3, 6} 1 + H = {1, 4, 7}

2 + H = {2, 5, 8} 3 + H = {3, 6, 0}

4 + H = {4, 7, 1} 5 + H = {5, 8, 2}

0 + H = {0, 3, 6} 1 + H = {1, 4, 7} 2 + H = {2, 5, 8}

2c,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| + | 0 | 1 | 2 | 3 | 4 |
| 0 | 0 | 1 | 2 | 3 | 4 |
| 1 | 1 | 2 | 3 | 4 | 0 |
| 2 | 2 | 3 | 4 | 0 | 1 |
| 3 | 3 | 4 | 0 | 1 | 2 |
| 4 | 4 | 0 | 1 | 2 | 3 |

3,

I z21 så har vi 4 delgrupper av storlek

1,3, 7, 21

Vi har de triviala grupperna H1 = {0} och H2 = G

H3 = (7) = {7, 14, 0}

H4 = (3) = {3, 6, 9, 12, 15, 18, 0}

3p

4,

7, 3, 2, 3

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