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COSC370

Dr Lu

HW5

3)

| step | N’ | D(t), p(t) | D(u), p(u) | D(v), p(v) | D(w), p(w) | D(y), p(y) | D(z), p(z) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | x | ∞ | ∞ | 3, x | 6, x | 6, x | 8, x |
| 1 | xv | 7, v | 6, v | 3, x | 6, x | 6, x | 8, x |
| 2 | xvu | 7, v | 6, v | 3, x | 6, x | 6, x | 8, x |
| 3 | xvuw | 7, v | 6, v | 3, x | 6, x | 6, x | 8, x |
| 4 | xvuwy | 7, v | 6, v | 3, x | 6, x | 6, x | 8, x |
| 5 | xvuwyt | 7, v | 6, v | 3, x | 6, x | 6, x | 8, x |
| 6 | xvuwytz | 7, v | 6, v | 3, x | 6, x | 6, x | 8, x |

5)

a.

| Source/Dest | u | v | x | y | z |
| --- | --- | --- | --- | --- | --- |
| v | ∞ | ∞ | ∞ | ∞ | ∞ |
| x | ∞ | ∞ | ∞ | ∞ | ∞ |
| z | ∞ | 6 | 2 | ∞ | 0 |

b.

| Source/Dest | u | v | x | y | z |
| --- | --- | --- | --- | --- | --- |
| v | 1 | 0 | 3 | ∞ | 6 |
| x | ∞ | 3 | 0 | 3 | 2 |
| z | 7 | 5 | 2 | 5 | 0 |

c.

| Source/Dest | u | v | x | y | z |
| --- | --- | --- | --- | --- | --- |
| v | 1 | 0 | 3 | 3 | 5 |
| x | 4 | 3 | 0 | 3 | 2 |
| z | 6 | 5 | 2 | 5 | 0 |