

MATH321 - Assignment 3

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1 Q1

| δ | A | C | D | X | Y | Z |
|----------|---------------|---------------|---------------|---------------|---------------|---------------|
| q_0 | (q_1, X, R) | | | | (q_4, Y, R) | |
| q_1 | (q_1, A, R) | | (q_2, Y, R) | | (q_1, Y, R) | |
| q_2 | | (q_3, Z, L) | (q_2, D, R) | | | (q_2, Z, R) |
| q_3 | (q_3, A, L) | | (q_3, D, L) | (q_0, X, R) | (q_3, Y, L) | (q_3, Z, L) |
| q_4 | | | (q_5, Y, R) | | (q_4, Y, R) | (q_7, Z, L) |
| q_5 | | (q_6, Z, L) | (q_5, D, R) | | | (q_5, Z, R) |
| q_6 | | | (q_6, D, L) | | (q_4, Y, R) | (q_6, Z, L) |
| q_7 | | | | | | |

Table 1: Transition Function Table