Learning exercises

18.6-Consider the following data set comprised of 3 binary input attributes(A, A2, and A3) and one binary output

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Example | A1 | A2 | A3 | Output *y* |
| X1 | 1 | 0 | 0 | 0 |
| X2 | 1 | 0 | 1 | 0 |
| X3 | 0 | 1 | 0 | 0 |
| X4 | 1 | 1 | 1 | 1 |
| X5 | 1 | 1 | 0 | 1 |

Use the algorithm in Figure 18.5 (pg. 702) to learn a decision tree for these data. Show computations made to determine the attribute to split at each node

19.1 – Show by translating into conjunctive normal form and applying resolution, that the conclusion drawn on page 784 concerning Brazilians is sound