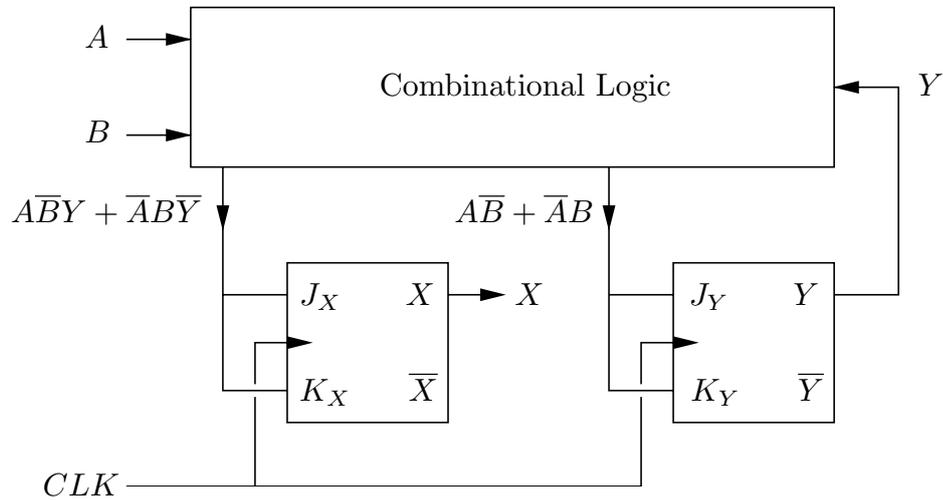


2002 Paper 2 Question 3

Digital Electronics

Consider the following circuit with clock CLK , inputs A and B and outputs X and Y .



- How many states does this system have? [2 marks]
- How many rows will there be in a state transition table? [2 marks]
- Provide the state transition table. [8 marks]
- Draw a state diagram of the system. [6 marks]
- Describe what the circuit does in words. [2 marks]