Massachusetts Institute of Technology
6.042J/18.062J: Mathematics for Computer Science
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Handout 16
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Mini-Quiz 3

1. Write your name:

2. Let

$$A=\begin{bmatrix} 1 & 0 & 1 \\ 1 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$B=\begin{bmatrix} 0 & 1 & 1 \\ 1 & 0 & 1 \\ 1 & 0 & 1 \end{bmatrix}$$

Find:

(a) $A \bigvee B$

(b) $A \bigwedge B$

(c) $A \bigodot B$

Solution:

(a) $$A \bigvee B = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 0 & 1 \end{bmatrix}$$

(b) $$A \bigwedge B = \begin{bmatrix} 0 & 0 & 1 \\ 1 & 0 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

(c) $$A \bigodot B = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 0 & 1 \end{bmatrix}$$