## MTH 337, Sample Quiz 5 Spring 2022

You will have 15 minutes to take the actual quiz.

1. complete the following table.

Color	RGB definition
Red	
Cyan	
	(0,1,0)
	(1,0,1)

2. Use array broadcasting to recreate the following matrix:

3. Describe in words what the command np.transpose(A,(1,0,2)) does.

4. Use the array

$$A = \left[ \begin{array}{cc} 1 & 2 \\ 3 & 4 \\ 5 & 6 \end{array} \right]$$

to build the array

$$B = \begin{bmatrix} 1 & 2 & 1 & 2 & 1 \\ 3 & 4 & 3 & 4 & 3 \\ 5 & 6 & 5 & 6 & 5 \\ \hline 1 & 2 & 1 & 2 & 1 \\ 3 & 4 & 3 & 4 & 3 \end{bmatrix}.$$