

### Math 265 Summer 2018 - Quiz 01

Remember that your work is graded on the quality of your writing and explanation as well as the validity of the mathematics.

- (1) (10 Points) Write down the augmented matrix of the following system, and is  $(1, 0, 1)$  is a solution of it?

$$\begin{cases} x_1 + 2x_2 + 3x_3 & = 4 \\ 2x_1 - x_2 + x_3 & = 3 \\ -x_1 + x_2 + x_3 & = 0 \end{cases}$$

- (2) (10 Points) Find an equation involving  $g$ ,  $h$ , and  $k$  that makes this augmented matrix correspond to a consistent system:

$$\begin{bmatrix} 1 & 0 & 1 & g \\ 2 & 6 & 0 & h \\ -1 & 3 & -2 & k \end{bmatrix}$$