$\begin{array}{c} {\rm Quiz} \ 18 - {\rm MA16020} - {\rm April} \ 9, \ 2018 \\ {\rm Alden \ Bradford} \end{array}$

1. (8 points) For each of the following augmented matrices, state whether the system it describes is inconsistent, consistent dependent, or consistent independent.

(a)	$\left[\begin{array}{c}3\\1\end{array}\right]$	$5 \\ -1$	$\begin{bmatrix} 7 \\ -3 \end{bmatrix}$		(c)	$\left[\begin{array}{c} 6\\ -4 \end{array}\right]$	$-2 \\ 1$	$\begin{vmatrix} 1 \\ 4 \end{vmatrix} -$	$\begin{bmatrix} 3\\2 \end{bmatrix}$
(b)	$\left[\begin{array}{c}1\\0\\0\end{array}\right]$	$egin{array}{c} 3 \ 1 \ 0 \end{array}$	$\begin{array}{c c} -2 \\ 9 \\ 0 \end{array}$	$\begin{bmatrix} 4 \\ 0 \\ 1 \end{bmatrix}$	(d)	$\left[\begin{array}{c}1\\0\\0\end{array}\right]$	$5 \\ 1 \\ 0$	$\begin{array}{c} 6 \\ 2 \\ 0 \end{array}$	$\begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$

2. (2 points) With R_1 , R_2 , and R_3 representing the rows of the following matrix, state (do not compute) a single valid row operation that will put a zero in the third row in the second column.

[1	0	4	6
0	1	3	7
0	$\frac{2}{3}$	$\frac{8}{2}$	-3