WORKSHEET 9/7/23
MATH 2331, FALL 2023
(1) For each augmented matrix, write down the corresponding system of linear equations.
(a)

$$
\left[\begin{array}{lll:l}
1 & 0 & 0 & 4 \\
0 & 1 & 0 & 3 \\
0 & 0 & 1 & 1 \\
0 & 0 & 0 & 0
\end{array}\right]
$$

(b)

$$
\left[\begin{array}{lll|l}
1 & 0 & 0 & 4 \\
0 & 1 & 7 & 3
\end{array}\right]
$$

(c)

$$
\left[\begin{array}{lll:l}
0 & 1 & 0 & 1 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0
\end{array}\right]
$$

(d)

$$
\left[\begin{array}{lll:l}
1 & 0 & 0 & 0 \\
0 & 1 & 0 & 0 \\
0 & 0 & 1 & 0 \\
0 & 0 & 0 & 1
\end{array}\right]
$$

(2) Find all $3 \times 2$ matrices in reduced row-echelon form which have two leading 1 s .
(3) Find all $2 \times 3$ matrices in reduced row-echelon form which have two leading 1s.

