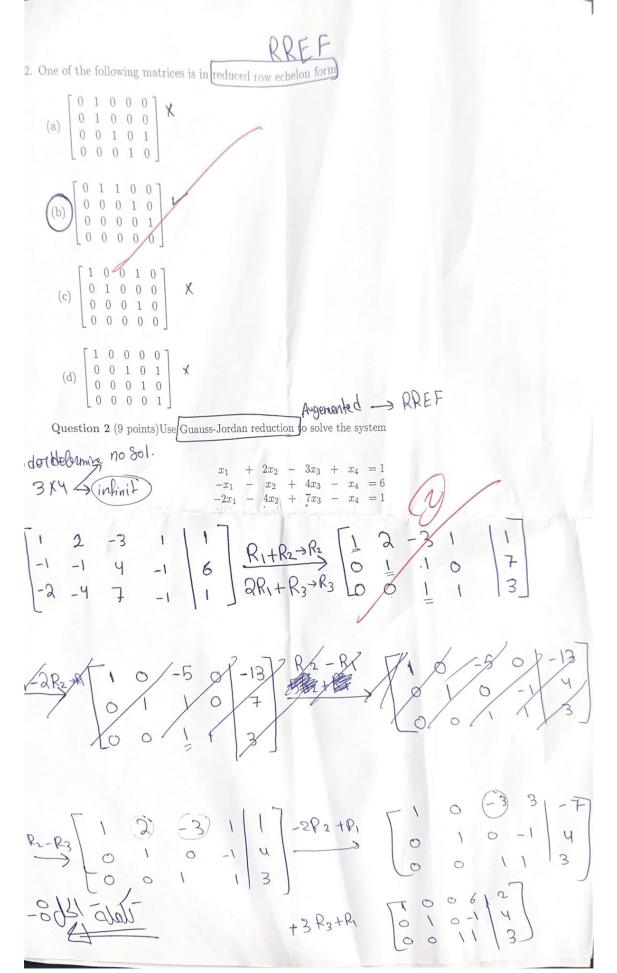


Question 2 (2 points each ) Circle the most correct answer:

1. If 
$$(A|b) = \begin{bmatrix} 1 & 0 & 2 & | & 1 \\ -1 & 1 & -1 & | & 0 \\ -1 & 0 & a & | & \beta \end{bmatrix}$$
 is the augmented matrix of the system  $Ax = b$ . Answer the following questions.  
(a) The system has to solution if  
(b)  $x = -2$  and  $\beta \neq -1$   
(c) The system has exactly one solution if  
(c)  $x = -2$  and  $\beta = -1$   
(c) The system has infinitely many solutions if  
(c)  $x = -2$  and  $\beta \neq -1$   
(c) The system has infinitely many solutions if  
(c)  $x = -2$  and  $\beta \neq -1$   
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(c)

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 $\begin{bmatrix} 1 & 2 & -3 & 1 & 1 \\ -1 & -1 & 4 & -1 & 6 \\ -2 & 4 & 7 & 7 & 7 & 7 \\ \end{bmatrix} \begin{bmatrix} P_{1+}R_{3} \rightarrow R_{3} & 1 & 2 & -3 \\ 0 & 1 & 1 & 0 & 7 \\ R_{1+}P_{2} \rightarrow R_{2} & -1 & 6 & 4 & 0 \\ \hline R_{1} + P_{2} \rightarrow R_{2} & -1 & 6 & 4 & 0 \\ \end{bmatrix}$ Xy=t, because if free Ostale Vorivere So infinite number afsol.  $x_{3+}x_{4=}3$  $x_{3=}3-t$ Heset of sol= X1, 1/2, 1/3, 1×4) 8 (2-6t, 4+t, 3-t, - $\chi_2 - \chi_y = y$ X2=44t teR  $X_1 + 6X_4 = 2$  $X_1 = 2 - 6t$ the set of solution.

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