In questions 1-4, state whether the matrices are in echelon form, reduced row echelon form (RREF) or neither form.

Multiple Choice:

- (a) Echelon form ✓
- (b) RREF
- (c) neither

Multiple Choice:

- (a) Echelon form
- (b) RREF
- (c) neither ✓

Multiple Choice:

- (a) Echelon form ✓
- (b) RREF
- (c) neither

Multiple Choice:

- (a) Echelon form
- (b) RREF ✓
- (c) neither

Question 5 Given the augmented matrix below that corresponds to a linear system in variables x_1, x_2, x_3 , and x_4 , what is the correct parametric description of the solution set?

Multiple Choice:

(a)
$$\begin{cases} x_1 = 2 - x_2 - 4x_3 \\ x_2 = 7 \\ x_3 \text{ is free} \\ x_4 \text{ is free} \end{cases}$$

(b)
$$\begin{cases} x_4 & \text{is free} \\ x_1 & = 2 - x_2 - 4x_3 \\ x_2 & \text{is free} \\ x_3 & = 7 \\ x_4 & \text{is free} \end{cases}$$

(c)
$$\begin{cases} x_1 & \text{is free} \\ x_2 &= 2 - 4x_3 \\ x_3 & \text{is free} \\ x_4 &= 7 \end{cases} \checkmark$$

(d) no solution

The pivots of this matrix appear in columns $\boxed{2}$ and $\boxed{4}$.