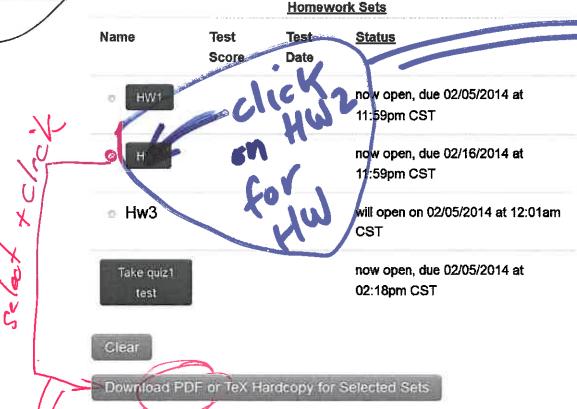
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ft-uiowa-math2550

Assignment Hw2 due 02/16/2014 at 11:59pm CST

1. (1 pt) Determine whether the following matrices are in echelon form, reduced echelon form or not in echelon form.

	-10					
1.	0	-2	1	1	1	ı
	0	0	1	1 0 1	8	l
	0	0	0	1	0	ı

- · A. Echelon Form
- B. Reduced Echelon Form
- C. Not in Echelon Form

$$2. \left[\begin{array}{rrr} 1 & 1 & 10 \\ 1 & 0 & 5 \end{array} \right]$$

- · A. Echelon Form
- . B. Reduced Echelon Form
- · C. Not in Echelon Form

3.
$$\begin{bmatrix} 1 & 0 & 0 & -8 \\ 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 9 \end{bmatrix}$$

- A, Echelon Form
- B. Reduced Echelon Form
- C. Not in Echelon Form

- A. Echelon Form
- B, Reduced Echelon Form
- C. Not in Echelon Form

Answer(s) submitted:

(incorrect)

2. (1 pt) Let
$$A = \begin{bmatrix} 1 & 0 & 3 & 0 & -5 \\ 0 & 1 & 3 & 0 & 1 \\ 0 & 0 & 0 & 1 & 2 \\ 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

Is the matrix in echelon form? (input Yes or No) Is the matrix in reduced echelon form? (input Yes or No)

question

- A. No solution
- B. Unique solution
- C. Infinitely many solutions
- D, none of the above

Answer(s) submitted:

(incorrect)

3, (1 pt) The reduced row-echelon forms of the augmented matrices of four systems are given below. How many solutions does each system have?

$$1. \left[\begin{array}{ccc|c} 1 & 0 & 0 & 4 \\ 0 & 0 & 1 & -18 \end{array} \right]$$

- A. No solutions
- B. Infinitely many solutions
- C. Unique solution
- D. None of the above

$$2. \left[\begin{array}{cc|c} 1 & 0 & 17 \\ 0 & 1 & -7 \end{array} \right]$$

- · A. No solutions
- B. Unique solution
- · C. Infinitely many solutions
- . D. None of the above

3.
$$\begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 12 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

- A. No solutions
- B. Infinitely many solutions
- C. Unique solution
- D. None of the above

$$4. \begin{bmatrix} 0 & 1 & 0 & -3 \\ 0 & 0 & 1 & 9 \end{bmatrix}$$

- A. No solutions
- B. Unique solution
- · C. Infinitely many solutions
- D. None of the above

Answer(s) submitted:

(incorrect)

4. (1 pt) Convert the system

$$3x_1 + 10x_2 - 11x_3 = -4$$

 $x_1 + 3x_2 - 4x_3 = -1$
 $7x_1 + 24x_2 - 24x_3 = -13$

to an augmented matrix. Then reduce the system to echelon form and determine if the system is consistent. If the system in consistent, then find all solutions.

Augmented matrix: _

Echelon form: .

Is the system consistent? ?



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Problems

Problem 1

Problem 2 4

Problem 3 ____

Problem 4

Problem 5

Problem 6

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Hw2: Problem 1

webwork ft-ulowa-math2550 hw2



(1 pt) Determine whether the following matrices are in echelon form, reduced echelon form or not in echelon form.

1.

- A. Echelon Form
- B. Reduced Echelon Form
- C. Not in Echelon Form

2.

Δ

- A. Echelon Form
- B. Reduced Echelon Form
- C. Not in Echelon Form

Note: You can earn partial credit on this problem.

Preview Answers

Submit Answers

You have attempted this problem 0 times. You have 2 attempts remaining.

Email instructor

Answers T are RD SAV V MIT UNTSUBMIT

Hw2: Problem 1



Entered	Answer Preview
	В
B	В

At least one of the answers above is NOT correct.

2 of the questions remain unanswered.

(1 pt) Determine whether the following matrices are in echelon form, reduced echelon form or not in echelon form.

1.

Note: You can earn partial credit on this problem.

Preview Answers

Submit Answers

Your score was recorded.

You have attempted this problem 1 time.

You received a score of 25% for this attempt.

Your overall recorded score is 25%.

You have 1 attempt remaining.

Email instructor

