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> **2010 Matematik 2A hold 4**, Chapter 1 review TF
> Rasmus Veiergang Prentow, 5/31/10 at 12:44 PM

Question 1: *Score 0/5*

If a system of linear equations has no free variables, then it has a unique solution.

INCORRECT

Your Answer:
Correct Answer: False

Question 2: *Score 0/5*

The equation $Ax = 0$ has the trivial solution if and only if there are no free variables.

INCORRECT

Your Answer:
Correct Answer: False

Question 3: *Score 0/5*

Suppose that v_1, v_2, and v_3 are in R^5, v_2 is not a multiple of v_1, and v_3 is not a linear combination of v_1 and v_2. Then $\{v_1, v_2, v_3\}$ is linearly independent.

INCORRECT

Your Answer:
Correct Answer: False

Question 4: *Score 0/5*

If an augmented matrix $[A\ b]$ can be transformed by elementary row operations into reduced echelon form, then the equation $Ax = b$ is consistent.

INCORRECT

Your Answer:
Correct Answer: False

Question 5: *Score 0/5*

If $\{u, v, w\}$ is linearly independent, then u, v, and w are not in R^2.

INCORRECT

Your Answer:
Correct Answer: True

Question 6: *Score 0/5*

Any system of n linear equations in n variables has at most n solutions.

INCORRECT

Your Answer:
Correct Answer: False

Question 7: *Score 0/5*

If A is an $m \times n$ matrix and the equation $A\boldsymbol{x} = \boldsymbol{b}$ is consistent for some $\boldsymbol{b}$, then the columns of A span R^m.

INCORRECT

Your Answer:
Correct Answer: False

Question 8: *Score 0/5*

If $\boldsymbol{u}$ and $\boldsymbol{v}$ are in R^m, then $-\boldsymbol{u}$ is in $\mathrm{Span}\{\boldsymbol{u}, \boldsymbol{v}\}$.

INCORRECT

Your Answer:
Correct Answer: True