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2010 Matematik 2A hold 4, Lay1.7TF
Rasmus Veiergang Prentow, 5/31/10 at 12:42 PM

Question 1: *Score 0/1*

The columns of a matrix A are linearly independent if the equation $Ax = 0$ has the trivial solution. INCORRECT

Your Answer:
Correct Answer: False

Question 2: *Score 0/1*

If S is a linearly dependent set, then each vector is a linear combination of the other vectors in S. INCORRECT

Your Answer:
Correct Answer: False

Question 3: *Score 0/1*

The columns of any 4×5 matrix are linearly dependent. INCORRECT

Your Answer:
Correct Answer: True

Question 4: *Score 0/1*

If x and y are linearly independent, and if $\{x, y, z\}$ is linearly dependent, then z is in $\mathrm{Span}\{x, y\}$. INCORRECT

Your Answer:
Correct Answer: True

Question 5: *Score 0/1*

Two vectors are linearly dependent if and only if they lie on a line through the origin. INCORRECT

Your Answer:
Correct Answer: True

Question 6: *Score 0/1*

If a set contains fewer vectors than there are entries in the vectors, then the vectors are linearly independent. INCORRECT

Your Answer:
Correct Answer: False

Question 7: *Score 0/1*

If x and y are linearly independent, and if z is in $\text{Span}\{x, y\}$, then $\{x, y, z\}$ is linearly dependent

Your Answer:
Correct Answer: True

Question 8: *Score 0/1*

If a set in R^n is linearly dependent, then the set contains more vectors than there are entries in each vector.

Your Answer:
Correct Answer: False
