

QUIZ NUMBER 7 FOR MTH 221 AT 2PM

AYMAN BADAWI

Name _____, Id. Num. _____, Score $\frac{\quad}{15}$

QUESTION 1. Are $4 + x + x^2, -6x - 2x^2, 8 - 10x - 2x^2$ independent?

QUESTION 2. are $\begin{bmatrix} 4 & 2 \\ 1 & 1 \end{bmatrix}, \begin{bmatrix} 0 & 2 \\ 6 & 8 \end{bmatrix}, \begin{bmatrix} 0 & 1 \\ 3 & 4 \end{bmatrix}$ independent?

QUESTION 3. Is $(4, 6)^T \in \text{span}\{(-2, 4)^T, (10, -6)^T\}$?

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