$Quiz \underset{\scriptscriptstyle Dr.\ Adam\ Graham-Squire}{5}, \underbrace{Linear\ Algebra}$

Name:	

1. (4 points) Calculate det
$$A$$
 for $A = \begin{bmatrix} 4 & -7 & 3 & 0 & -5 \\ 0 & 3 & 0 & 0 & 0 \\ 7 & -6 & 4 & 4 & -8 \\ 5 & 5 & 2 & 0 & 0 \\ 0 & 9 & -1 & 0 & 2 \end{bmatrix}$.

2	(3 points) Let A and P	he square matrices	with P invertible	Show that deta	$(PAP^{-1}) - \det A$
∠.	to points, Let A and I	De square manices.	MIGHT THINGIGIDIC.	Diffow that dett	$I \cap I \cap U \cup I \cap I$

3. (3 points) Can a square matrix with two identical columns be invertible? Why or why not? Make sure you explain your reasoning.