
Name:_____ ID:_____

1. Is the vectors $\{7,8,1\}$ in the span of the vectors $\{1,2,3\}$ and $\{3,4,5\}$? Show your work and clearly state why?
2. Are the vectors $\{1,2,3\}$ and $\{3,4,5\}$ LI or LD? Clearly explain why?
3. Explain using standard terminology how you would determine if a set of 5 vectors $\{a_1, a_2, a_3, a_4, a_5\}$ in \mathbb{R}^6 were Linearly Independent.