## Section 1.3 Part II: Vector Equations

Prepare for class September 5, 2018	Name (Print):
After reading Section 1.3 (pages 24-29), answer the following	owing questions.
Note: Most texts that you will read represent a vector boldface, so generally we write vectors by hand with arr	
1. State the definition of a linear combination of vectors	5.
2. In words, explain how you would determine whether vectors $\mathbf{a_1}$ , $\mathbf{a_2}$ and $\mathbf{a_3}$ .	r or not a vector $\mathbf{b}$ is a linear combination of three
vectors $\mathbf{u}_1$ , $\mathbf{u}_2$ and $\mathbf{u}_3$ .	
3. State the definition of a span of a set of vectors.	
4. Explain what $\mathrm{Span}\{\mathbf{v}\}$ and $\mathrm{Span}\{\mathbf{u},\mathbf{v}\}$ represent a qualifiers.	geometrically. Be careful to include any necessary
quanners.	