Quiz 1 MATH 2184-10 - Linear Algebra Summer 2017

Total Points: 30

Total Time: 20 minutes

- (e) The equation Ax = b has a solution for all b._____
- 2. Describe all the solutions of Ax = 0 in the parametric vector form where [10]

$$A = \begin{bmatrix} -1 & -4 & 0 & -4 \\ 2 & -8 & 0 & 8 \end{bmatrix}.$$

3. For what value(s) of h is the set $\{v_1, v_2, v_3\}$ linearly dependent?

$$v_1 = \begin{bmatrix} 1\\ -3\\ -5 \end{bmatrix}, v_2 = \begin{bmatrix} -3\\ 9\\ 15 \end{bmatrix}, v_3 = \begin{bmatrix} 2\\ -5\\ h \end{bmatrix}$$

[10]