**Quiz M 240 Duration: 30 Min.**

**Student Name:**

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**Question I: If** $B=\left\{\left(2,1,1\right),\left(2,-1,1\right),(1,2,1)\right\}$

**and** $B'=\left\{\left(3,1,-5\right),\left(1,1,-3\right),(-1,0,2)\right\}$**are bases for** $R^{3}$**, then find the transition**

**matrix** $B$ **to** $B'$**.**

**Question II:**

**Find a basis for the row space of the matrix** $A=\left[\begin{matrix}1&2&0&2 5 \\-2&-5&1&-1 -8 \\0&-3&3&4 1 \\3&6&0&-7 2 \end{matrix}\right]$ **consisting entirely of row vectors from** $A.$