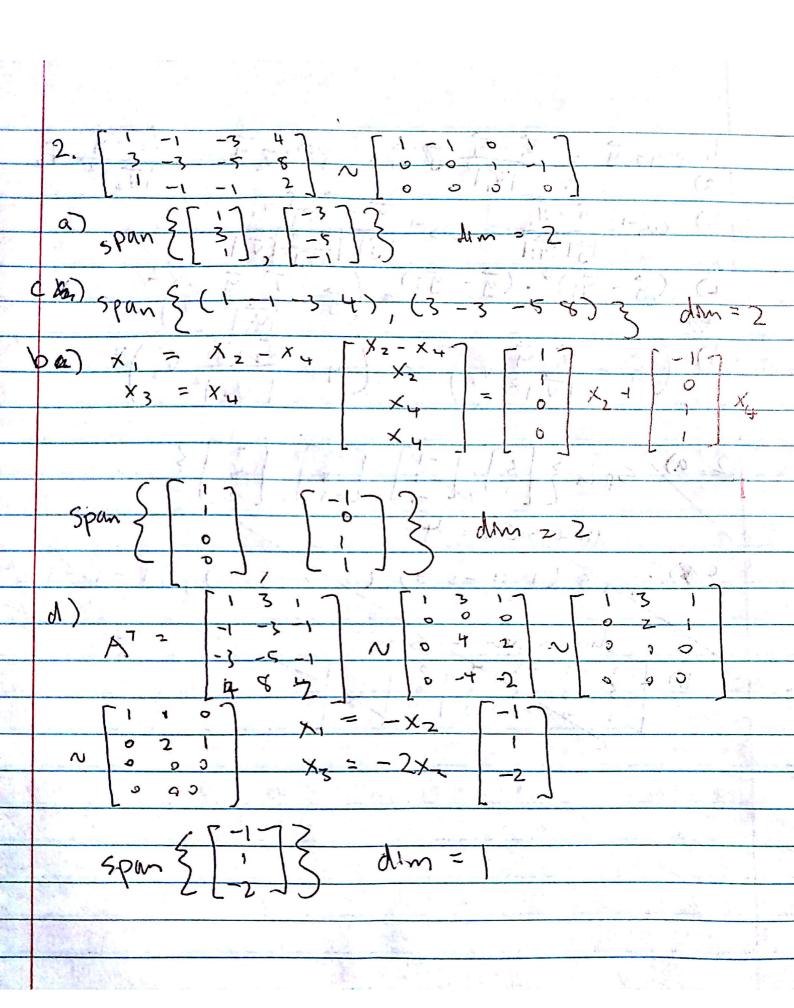
1.
$$proj \vec{q}, \vec{y} = \vec{v}, \vec{y} = \vec{v}, \vec{y}$$

a) $roj \vec{q}, \vec{y} = \vec{v}, \vec{y}$

b) $cos^{-1} \vec{y} \cdot \vec{y}; = cos^{-1} |\vec{y}| |\vec{v}| |\vec{y}| |$



3. a) [v, v₂ ...v_i] [x, o ...o] [v, v₂ ...v_i] T

b) 400 ergan rectors are required
c) ipython
d) 15

