

## Attendance Quiz for Lecture 19

**NAME:** (print!) \_\_\_\_\_ **Section:** \_\_\_\_\_

**E-MAIL ADDRESS:** (print!) \_\_\_\_\_

1. (a) Diagonalize the matrix

$$\begin{bmatrix} -2 & -2 \\ 6 & 5 \end{bmatrix} .$$

(b) Use (a) to compute  $A^{10}$  (Hint  $2^{10} = 1024$ ).