1. Find a quadratic fuction such that $||f||_u = 1$ and $||D(f)||_1 = 4$.

2. Let:

$$A = \begin{bmatrix} 1 & 0 \\ 1 & 1 \\ 0 & 1 \end{bmatrix}.$$

   Find:

   (a) $||A||_1$
   (b) $||A||_u$
   (c) $||A||_2$