Homework 7
for Janet Vassilev's Math 319 course

Do problems 4.1, 4.2, 4.3

(A) Find all the quadratic residues modulo 13.

(B) If $a = 15$ and $p = 23$, express $\{a, 2a, \ldots, \frac{p-1}{2}a\}$ in the interval $\left(-\frac{p}{2}, \frac{p}{2}\right)$ and find ν to compute $\left(\frac{15}{23}\right)$.

(C) Find the parity (odd or even) of integers in $\left(-\frac{5}{3}, \frac{29}{9}\right)$.