Math 255 - Spring 2022
The Legendre symbol
15 points
This homework invites you to compute some Legendre symbols.

1. Please compute the following Legendre symbols:
(a) $\left(\frac{19}{23}\right)$
(b) $\left(\frac{-23}{59}\right)$
(c) $\left(\frac{71}{73}\right)$
2. Please compute the following Legendre symbol:

$$
\left(\frac{219}{419}\right)
$$

Note that 419 is prime, but $219=3 \cdot 73$.

