Homework Week 12

1. Calculate $\left(2/1517\right)$ and tell if there is a solution to $x^{2}≡2\left(1517\right).$
2. Calculate $\left(2/2021\right)$ and tell if there is a solution to $x^{2}≡2\left(2021\right).$
3. Calculate $\left(17/45193\right)$ and tell if there is a solution to $x^{2}≡17\left(45193\right).$
4. Calculate $\left(2999/4349\right)$ and tell if there is a solution to $x^{2}≡2999\left(4349\right).$
5. Calculate $\left(1234/4567\right)$ and tell if there is a solution to $x^{2}≡1234\left(4567\right).$
6. Calculate $\left(3568/12703\right)$ and tell if there is a solution to $x^{2}≡3568\left(12703\right).$
7. Calculate $\left(5/16807\right)$ and tell if there is a solution to $x^{2}≡5\left(16807\right).$
8. Calculate $\left(5/4096\right)$ and tell if there is a solution to $x^{2}≡5\left(4096\right).$

5 pts each