

Section X.3 Homework

ORAL:

1. Solve the following (or show that no solutions exist)

- $x^2 + x + 5 \equiv 0 \pmod{11}$
- $x^2 + 2x + 3 \equiv 0 \pmod{19}$
- $3x^2 + 10x + 21 \equiv 0 \pmod{23}$
- $x^2 + 7x + 3 \equiv 0 \pmod{29}$

WRITTEN:

2. Solve the following (or show that no solutions exist)

- $37x^2 + 43x + 37 \equiv 0 \pmod{103}$
- $3x^2 + 7x + 169 \equiv 0 \pmod{1013}$
- $140x^2 + 43x + 953 \equiv 0 \pmod{1019}$