

NUMBER THEORY: CLASS 24

1. EXERCISE

- 1) How many affine transformation are there when $N = 26$.
- 2) Find all solutions (x, y) of the following congruences:

$$\begin{aligned}x + 4y &\equiv 1 \pmod{9} \\5x + 7y &\equiv 1 \pmod{9}.\end{aligned}$$