

Ex: $R_{3/11}$

$C = \{0, \frac{3}{11}, \frac{6}{11}, \dots, \frac{10}{11}\}$

1) ache a ordem de c em s^1 ?

$\therefore R_{3/11}^1(x) = x + \frac{3}{11} \pmod{1}$

$R_{3/11}^2(x) = x + \frac{6}{11} \pmod{1}$

$R_{3/11}^3(x) = x + \frac{9}{11} \pmod{1}$

$R_{3/11}^4(x) = x + \frac{1}{11} \pmod{1}$

$R_{3/11}^5(x) = x + \frac{4}{11} \pmod{1}$

$R_{3/11}^6(x) = x + \frac{7}{11} \pmod{1}$

$R_{3/11}^7(x) = x + \frac{10}{11} \pmod{1}$

$R_{3/11}^8(x) = x + \frac{2}{11} \pmod{1}$

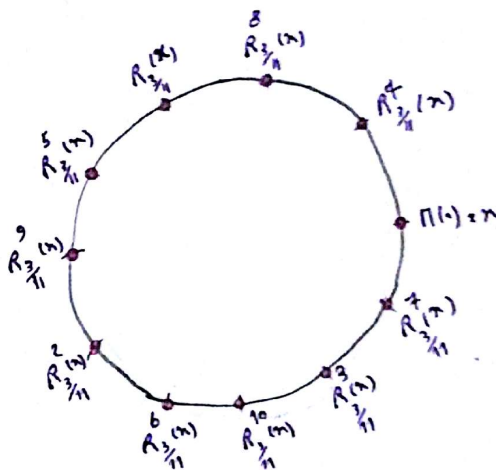
$R_{3/11}^9(x) = x + \frac{5}{11} \pmod{1}$

$R_{3/11}^{10}(x) = x + \frac{8}{11} \pmod{1}$

$\left\{ x, R_{3/11}^4(x), R_{3/11}^8(x), R_{3/11}^1(x), R_{3/11}^5(x), R_{3/11}^9(x), R_{3/11}^2(x), R_{3/11}^6(x), R_{3/11}^{10}(x), R_{3/11}^3(x), R_{3/11}^7(x) \right\}$

$C = \left\{ 0, 4 \cdot \frac{3}{11}, 8 \cdot \frac{3}{11}, 1 \cdot \frac{3}{11}, 5 \cdot \frac{3}{11}, 9 \cdot \frac{3}{11}, 2 \cdot \frac{3}{11}, 6 \cdot \frac{3}{11}, 10 \cdot \frac{3}{11}, 3 \cdot \frac{3}{11}, 7 \cdot \frac{3}{11} \right\}$

$C = \left\{ 0, \frac{1}{11}, \frac{2}{11}, \frac{3}{11}, \dots, \frac{10}{11} \right\}$



2) Qual o significado da numero 3?

The number 3 means that we move on the circle 3 by 3 for example when we have $R_{3/11}$ it means that we divide the circle into 11 part and move on it from the starting point x , 3 by 3. it will take 3 jump to reach the next point of the orbit of x .