In [2]:
```
from turtle import *
```

In [3]:
```
def dessine_congruences(x0, y0, n, modulo):
    up(); goto(x0-15, y0-20); down();
    write(f'Congruences de {n} modulo {modulo}')
    up();goto(x0,y0); down()
    positions = []
    flag=0
    for x in range(0,modulo):
        forward(1000*1/modulo)
        left(360/modulo)
        dot()
        positions.append(pos())
        if modulo < 51:
            write(flag, align="left", font=("calibri", 12, "normal"))
        flag += 1
    for x in range(1,modulo):
        multiplication = n * x
        mod = multiplication % modulo
        modx, mody = positions[mod]
        up()
        goto(positions[x])
        down()
        goto(positions[mod])
    return positions
```

In [4]:
```
dessine_congruences(0, -300, 9, 30)
```

Out[4]:
```
[(33.33,-300.00),
 (65.94,-293.07),
 (96.39,-279.51),
 (123.36,-259.92),
 (145.66,-235.15),
 (162.33,-206.28),
 (172.63,-174.58),
 (176.11,-141.43),
 (172.63,-108.28),
 (162.33,-76.57),
 (145.66,-47.71),
 (123.36,-22.94),
 (96.39,-3.34),
 (65.94,10.22),
 (33.33,17.15),
 (0.00,17.15),
 (-32.60,10.22),
 (-63.06,-3.34),
 (-90.02,-22.94),
 (-112.33,-47.71),
 (-128.99,-76.57),
 (-139.30,-108.28),
 (-142.78,-141.43),
 (-139.30,-174.58),
 (-128.99,-206.28),
 (-112.33,-235.15),
 (-90.02,-259.92),
 (-63.06,-279.51),
 (-32.60,-293.07),
 (-0.00,-300.00)]
```

In [ ]: