**«Дифференциальные уравнения»**

**Цель**: Решая предоставленные задания, изучить методы решения дифференциальных уравнений

**Задачи**:

Разработать программу, решающую дифференциальные уравнения

Решить предоставленные задачи

**Код программы**:

import math;

def func(a,b,y,n,func,br):

y0=y

x=a;

h=(b-a)/n

print(x, '|', y)

while x<b-h:

y=y+h\*(eval(func))

x+=h

print(x, '|', y)

if (eval(br)):

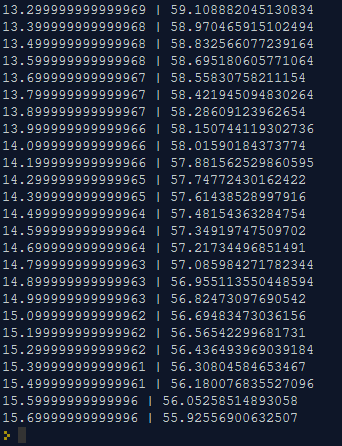
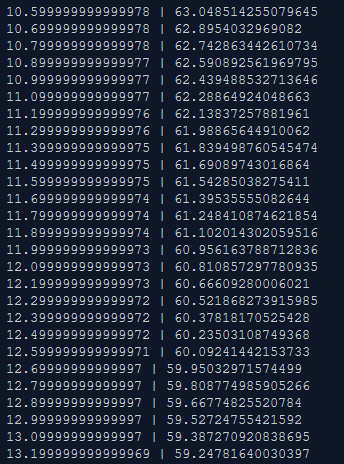
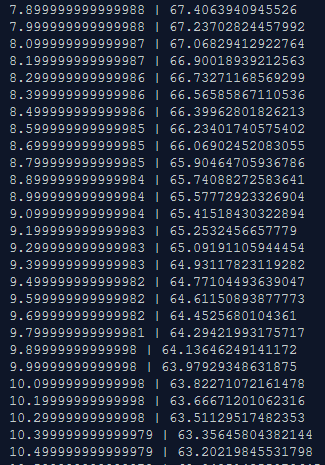
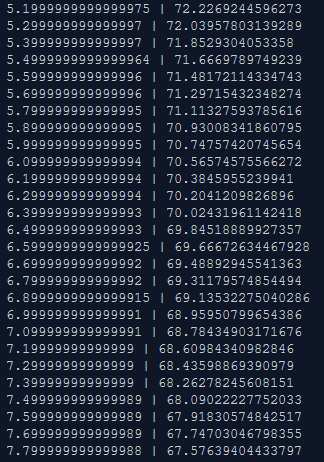
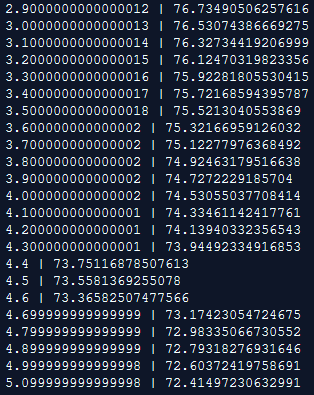
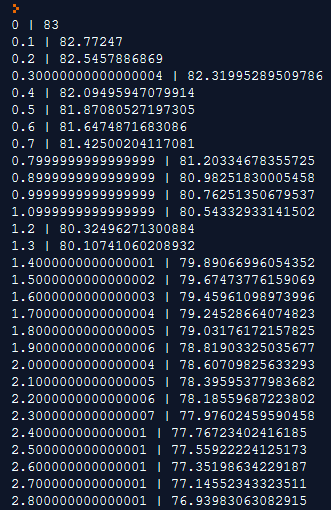
break

**Входные данные**:

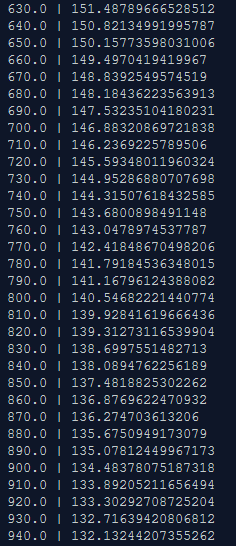
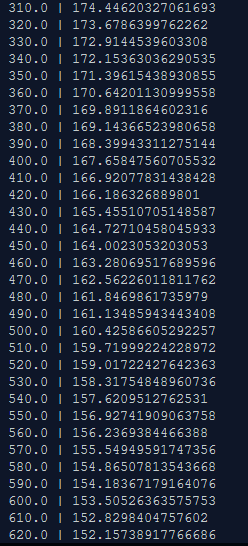
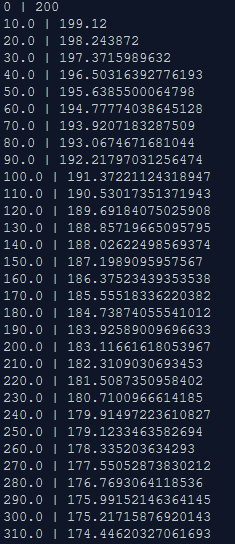
1. 0,100,83,1000,'-0.0373\*(y-22)','y<=56
2. 0,10000,200,1000,'-0.00044\*y','y<=y0/2'
3. 0,150,12,150,'(-(b\*y\*0.0001))','y<0'
4. 0,2,0,1000,'((300-y\*150)/30)','y>1.98'

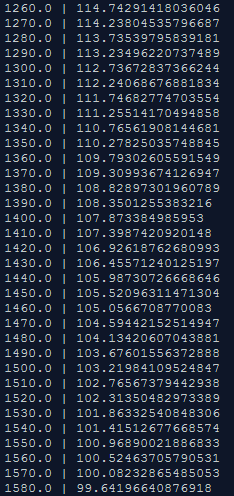
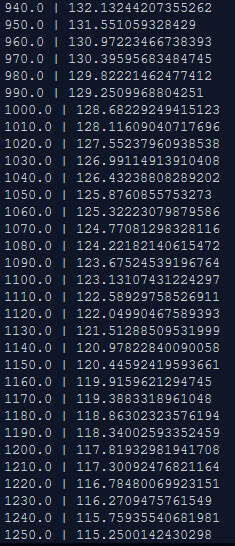
**Выходные данные**:

**1)**

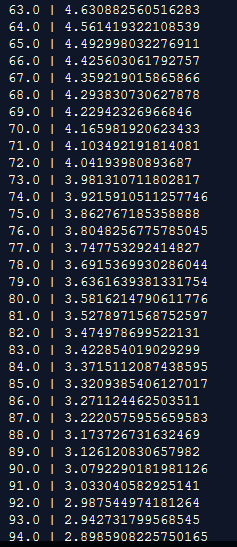
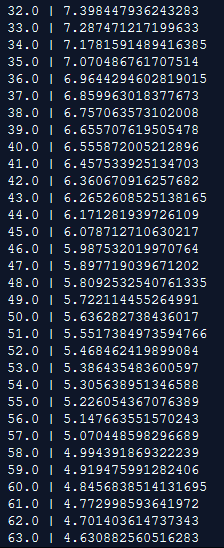
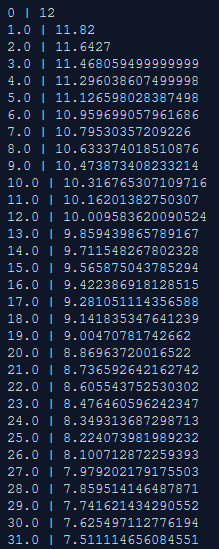
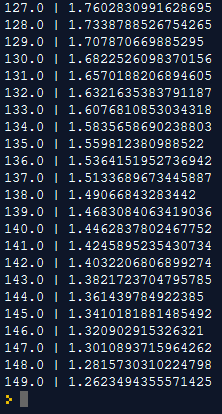


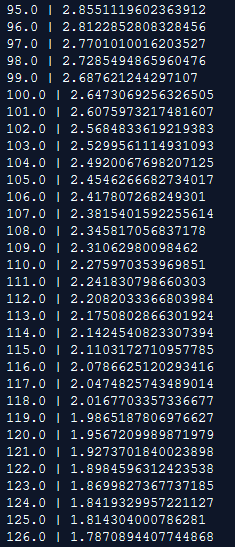
**2)**





**3)**





**4)**

Вставляю таблицу результатов из-за невозможности заскриншотить настолько большой объем данных.

|  |  |
| --- | --- |
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| 0.004 | 0.0398 |
| 0.006 | 0.059401999999999996 |
| 0.008 | 0.07880798 |
| 0.01 | 0.09801990020000001 |
| 0.012 | 0.11703970119800002 |
| 0.014 | 0.13586930418602 |
| 0.016 | 0.15451061114415982 |
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**Ответы:**

1) Чашка кофе остывает с 83 градусов до 56 градусов за 15,7 секунд

2) Период полураспада 200 г. радия равен 1580 секунд

3) Скорость ветра, прошедшего 150 метров в лесу равна 1.26234 метра в секунду

4) 99% предельной величины сила тока достигнет за 0,918 секунды