

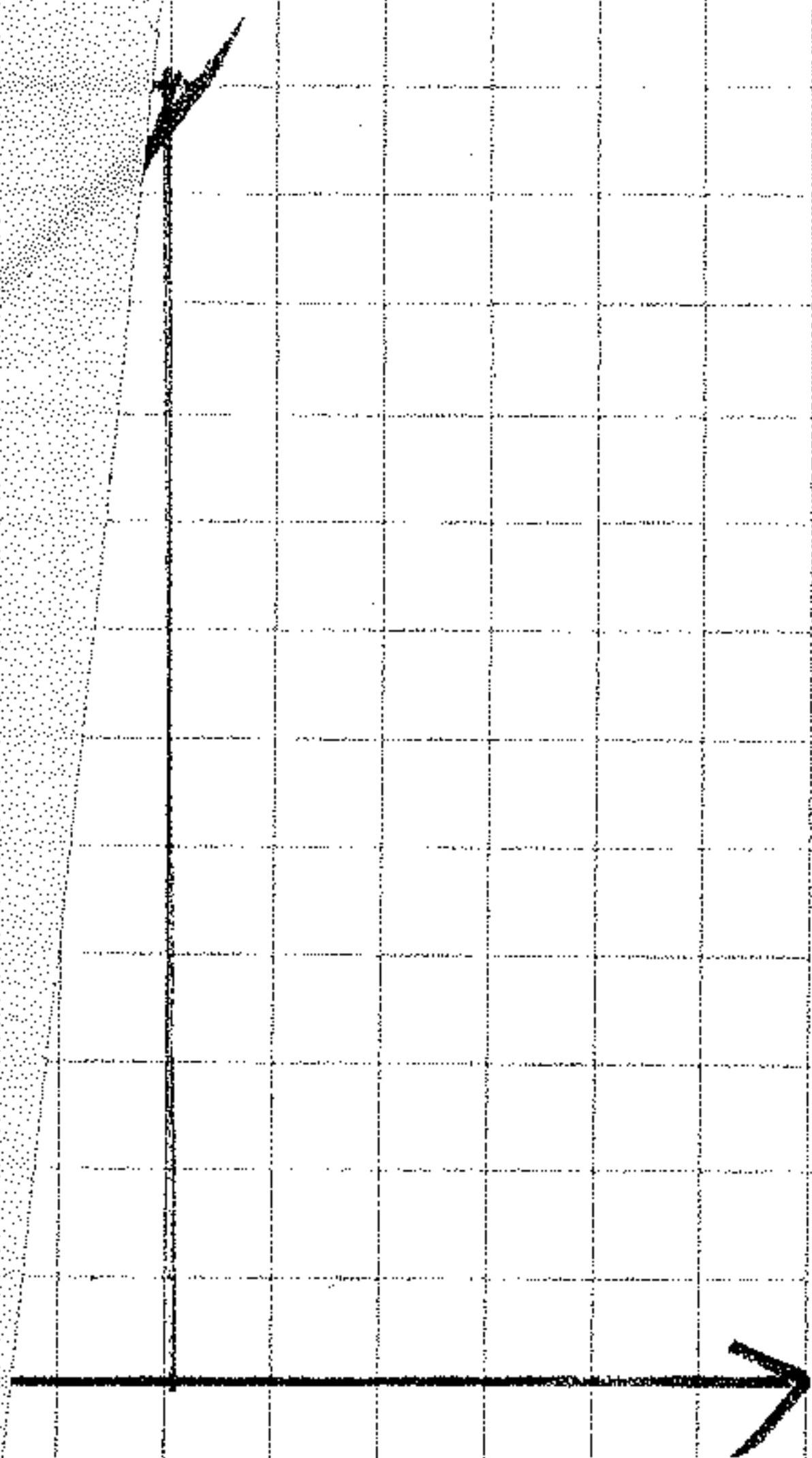
- 1) Turn on Copter to PC
- 2) Upload firmware
- 3) Open a program
- 4) Select port, and baudrate.
- 5) Click Connect
- 6) Select Tab
- 7) Click Open Connection -
Start calibration.

Shout Safety.

- 1) When somebody runs copter,
everybody! hear noises.
- 2) When command take off is sayen
everybody go away from copter to 2 meters
- 3) When copter touched down nobody
go near him while comand Go Stop Copter
not say.
- 5) Firstly, when you touch a copter
disconnect a battery before a do something.
- 6) When you fligh with this copter,
do all actions

SLOWLY!

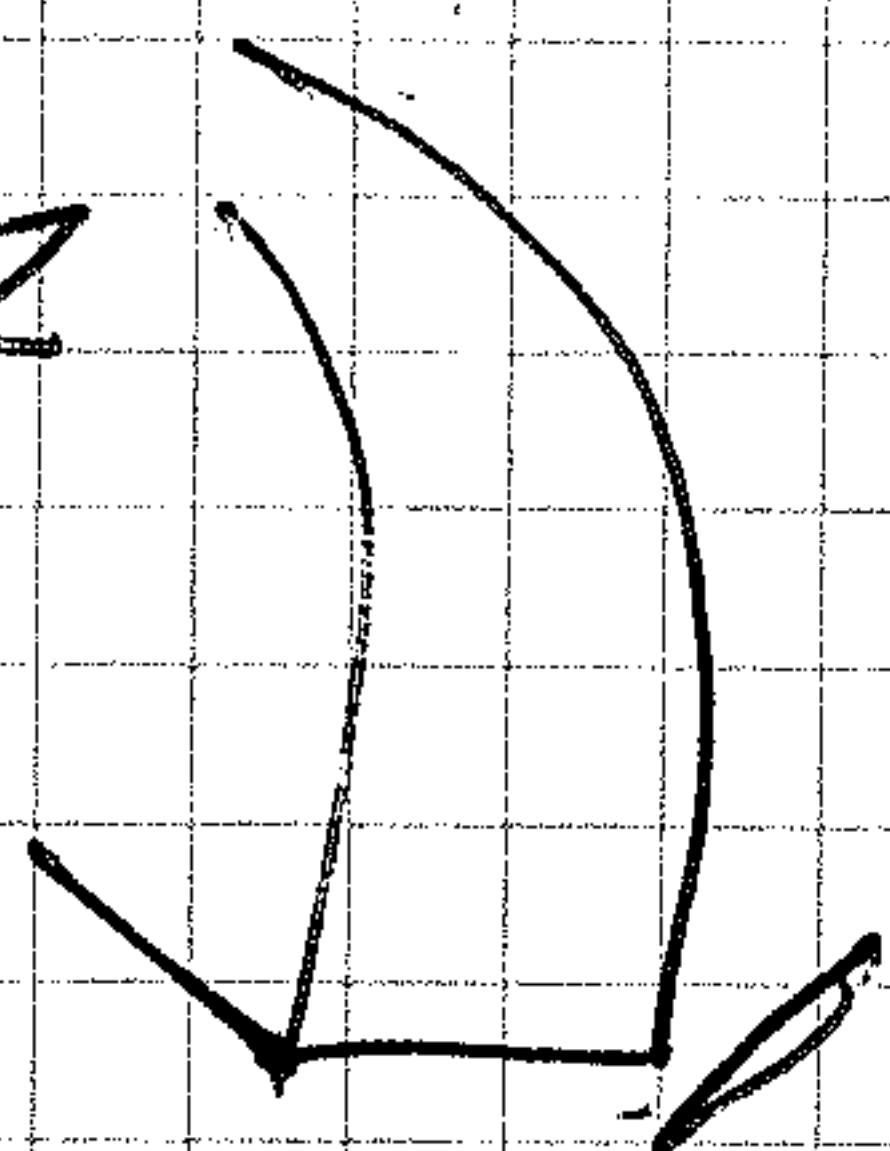
База
данных
координат
функции
Аннотация



time x

distance one y

distance two z

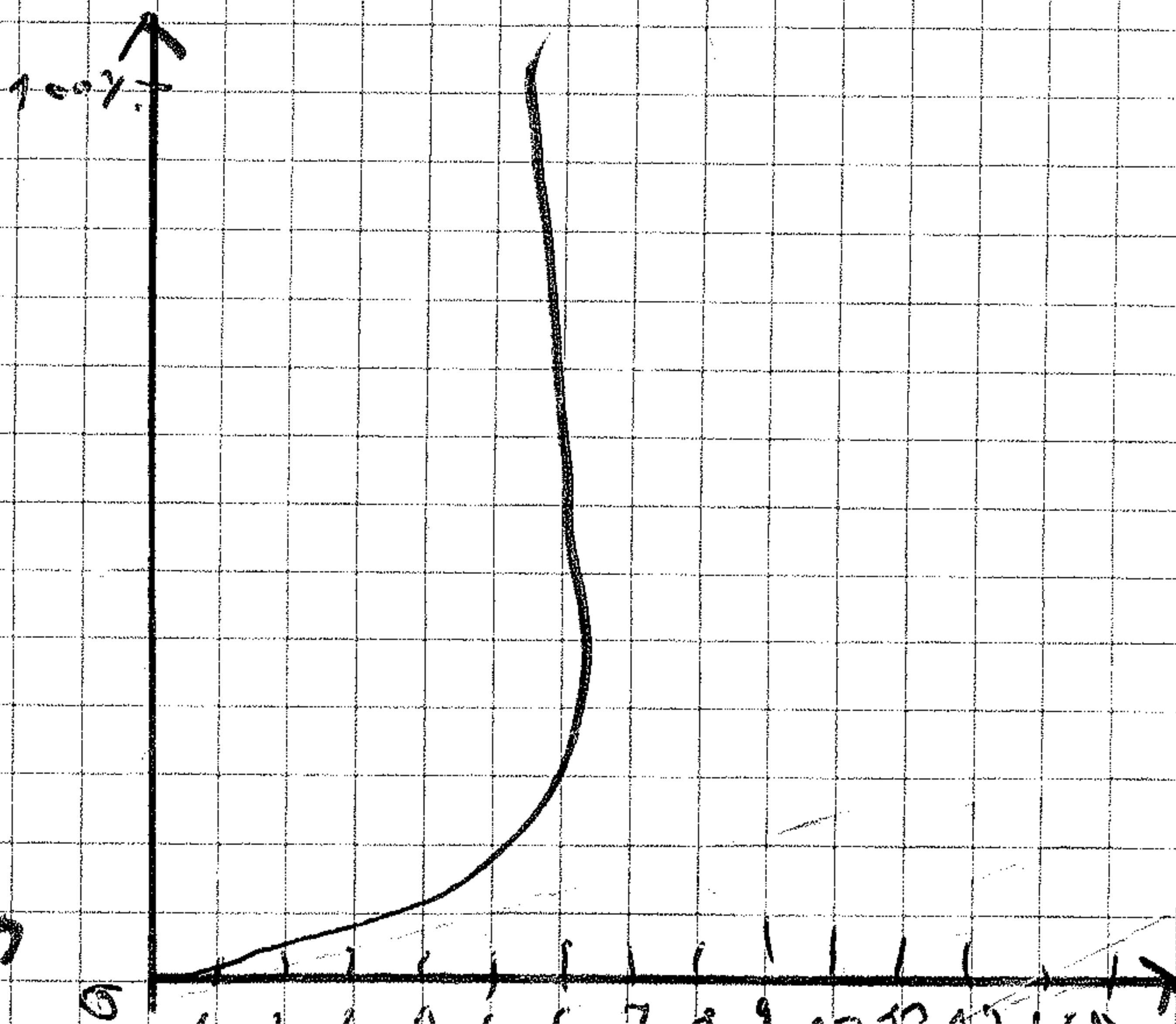
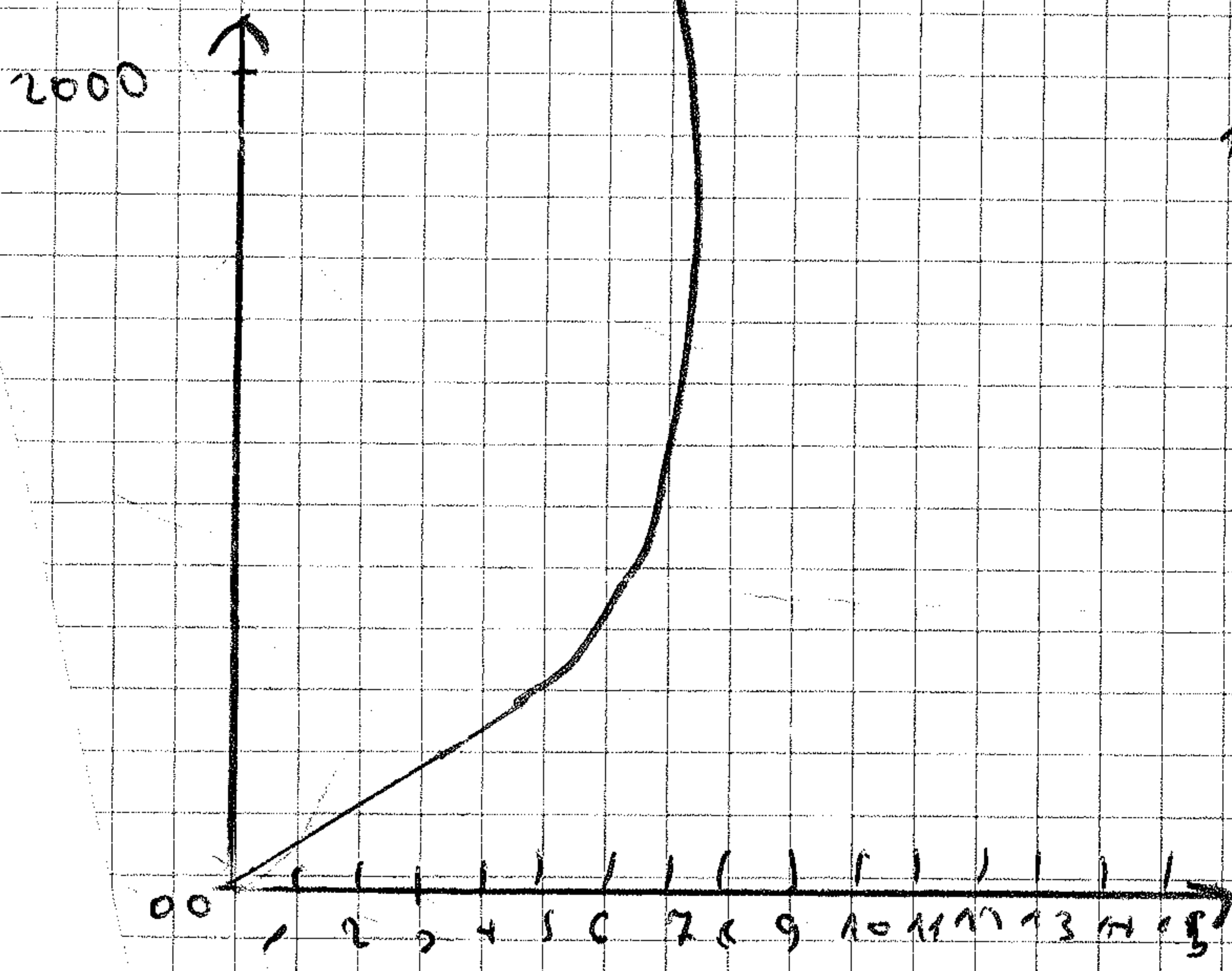


calculate acceleration and calculate
a motor speed to compensate it

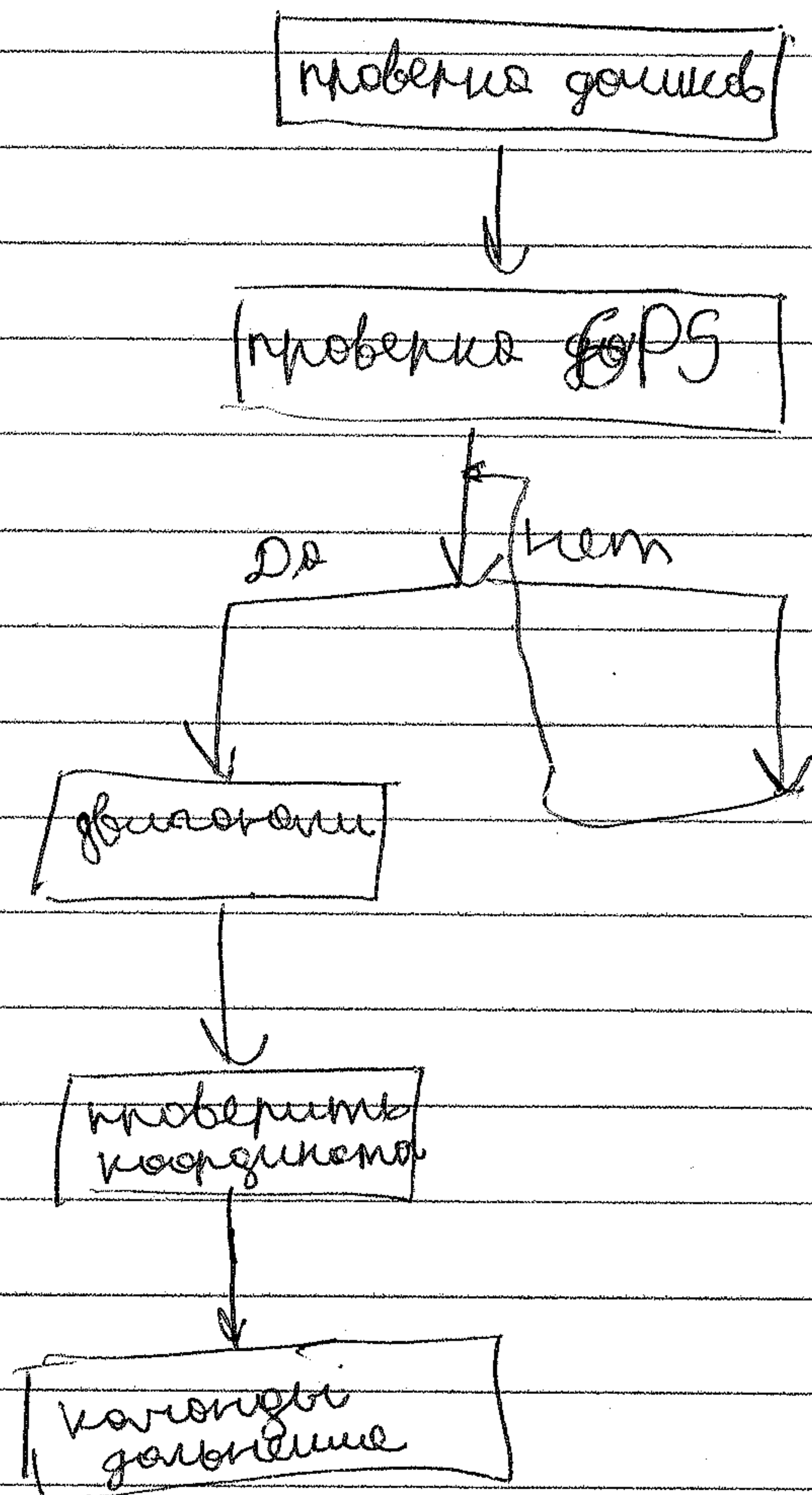
$$a = \frac{z - y}{x - 0}$$

$$= \frac{z - y}{x}$$

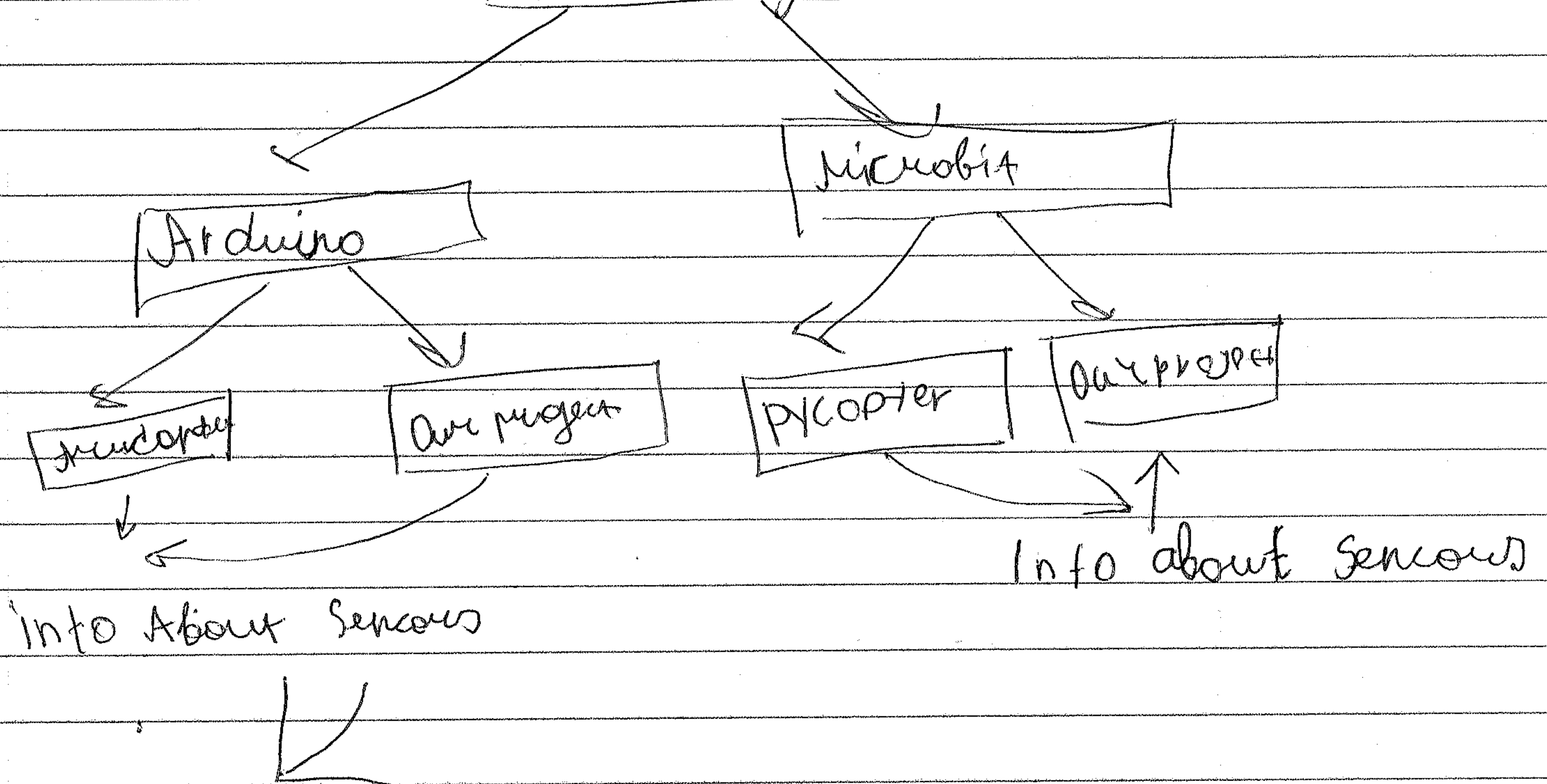
acceleration



Просто Висим



DRONE Two Ways



Sensors list

- 1) GPS : So read every second data and calculate difference
- 2) Barometer - Get data about altitude
- 3) ALTIMETER
- 4) Ultrasonic - Get data about distance for.
- 5) Infrared sensors
- 6) Gyroscopes

29,06 g / ~~min~~ h
29,06 cm³ / mah

$$x^2 + 6x + 9 = 0$$

$$V = \frac{gt^2}{2} \Rightarrow \frac{9.8 \cdot 30}{2} = 147 \text{ m/s}$$

$$F = mgV^2 = 367.5 = 367.5 \text{ kg}$$

$$V = \frac{v_0 - v_1}{t}$$

$$\text{height} = 220 \text{ m}$$

So the code one

def check_sensors():

input_ultrasonics = 0

input_ultrasonics_1 = 0

input_ultrasonics_2 = 0

input_ultrasonics_3 = 0

getdata(1, input_ultrasonics)

1.1 Done

1.2 Done

1.3 Connection by Jaan

1.4 Connection by Jaan

1.5 Connection by Jaan

2.1 Connection by Jaan

2.2 Go Rest by Jaan

3.1 Connection By Jaan

3.2.

3.3 Danilo, Alex, Mike

4.1 waiting how

4.2.

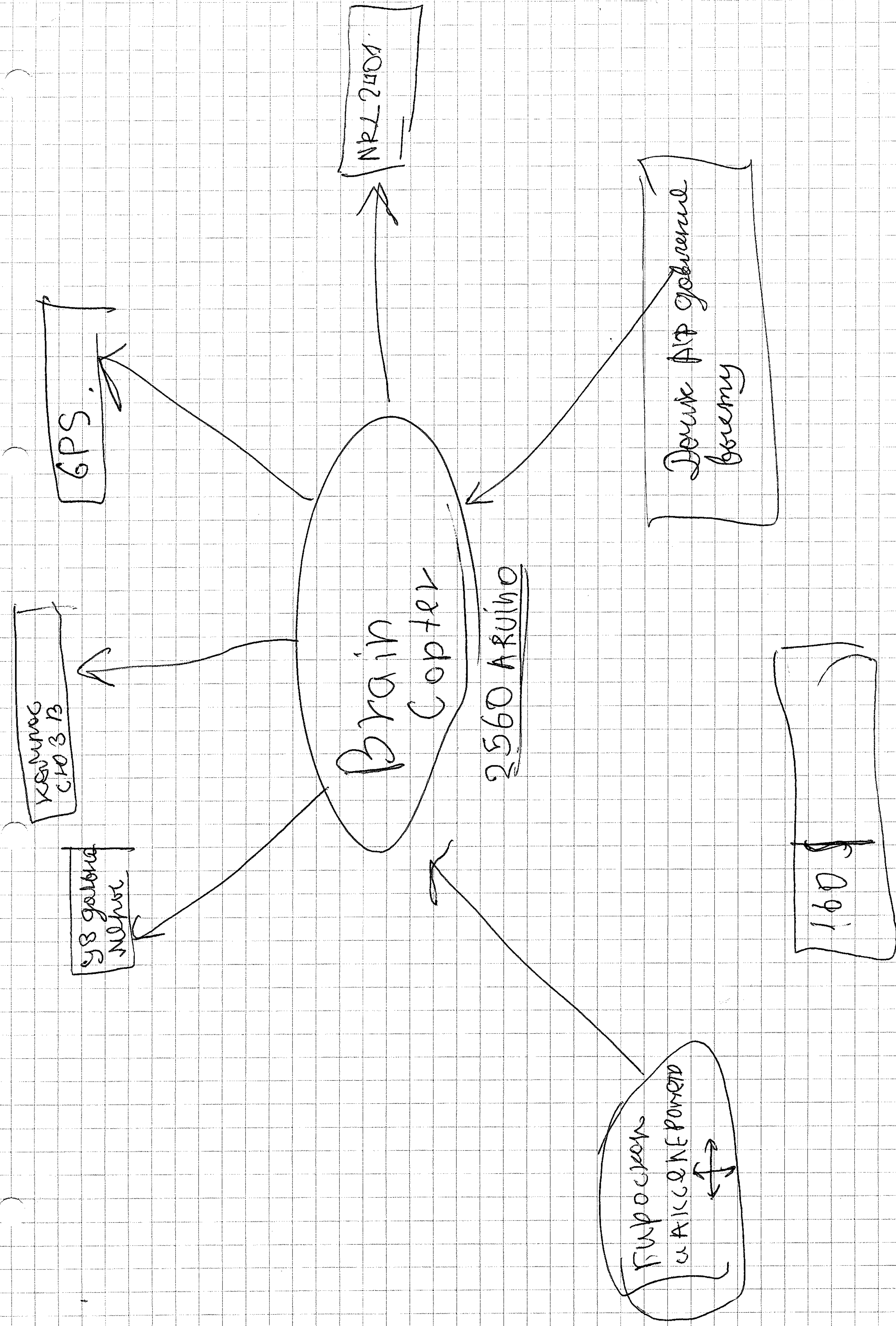
4.3

4.4

4.5

! To Do !

- 1) Upload and calibrate copter using our Firmware.
- 2) Upload brain software
- 3) Write check software (Build linux distro).
- 4) modules check-pin
- 5) Move propellers.
- 6) Check one more time
- 7) Go to takeoff place.
- 8) take off.
- 9) GitHub clean.
- 10) Show video.
- 11) Given data analyse
- 12) Presentation.



E_p

← three tick

(distance 2 - distance 1)²

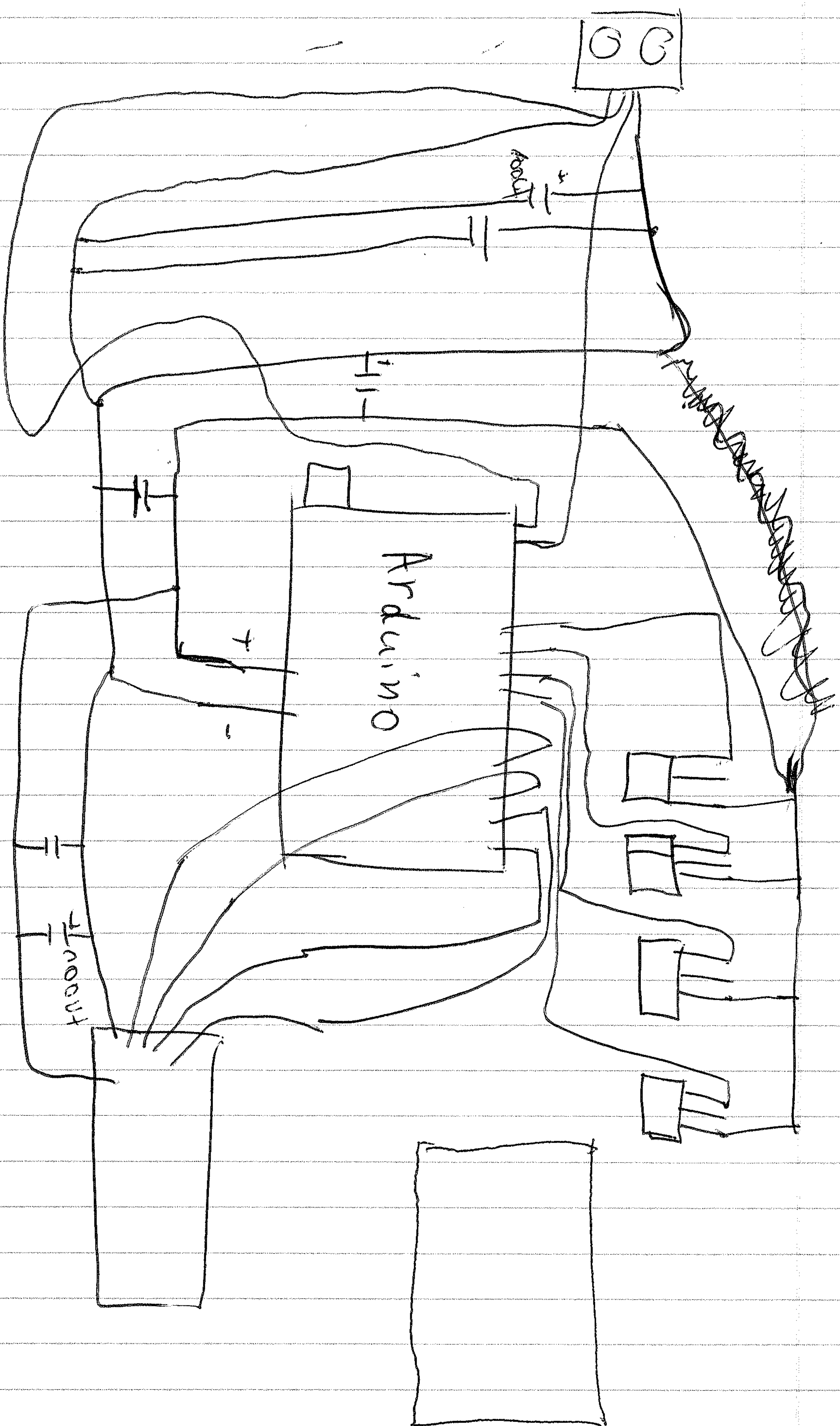
1) distance 2) distance

4m 2m

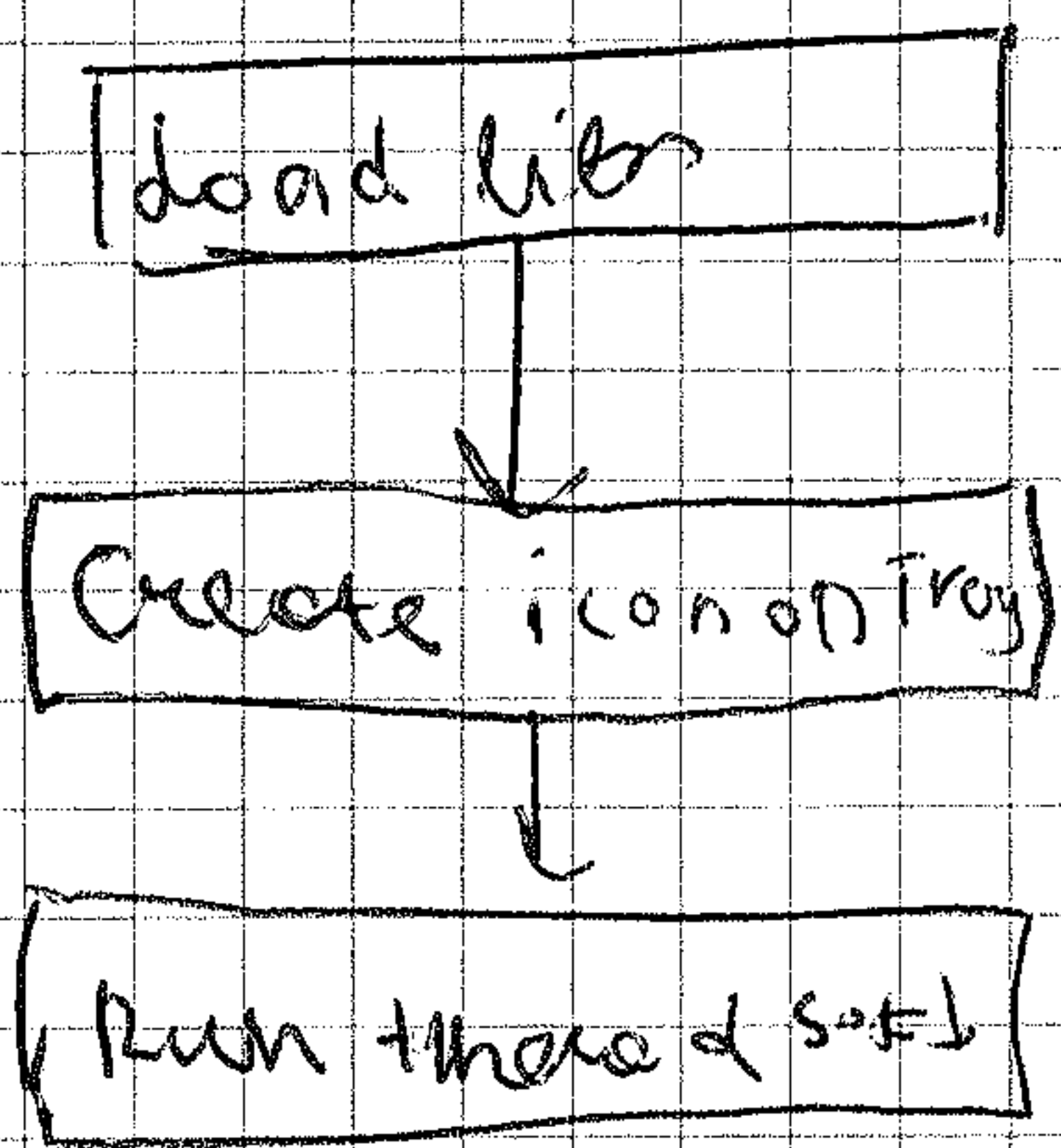
0% 100%

0% 100%

Arduino Laptop



Proxy With



$$y = \frac{2000}{x^2}$$

$$y = \frac{2000}{x^2}$$

$$1) \frac{y}{x} = \frac{2000}{x^3} = \frac{2000}{4} = 500$$

$$2) y = \frac{2000}{x^2} = 222$$

$$3) y = \frac{2000}{16} = 125$$

$$4) y = \frac{2000}{25} = 80$$

$$5) y = \frac{2000}{36} = 55.5$$

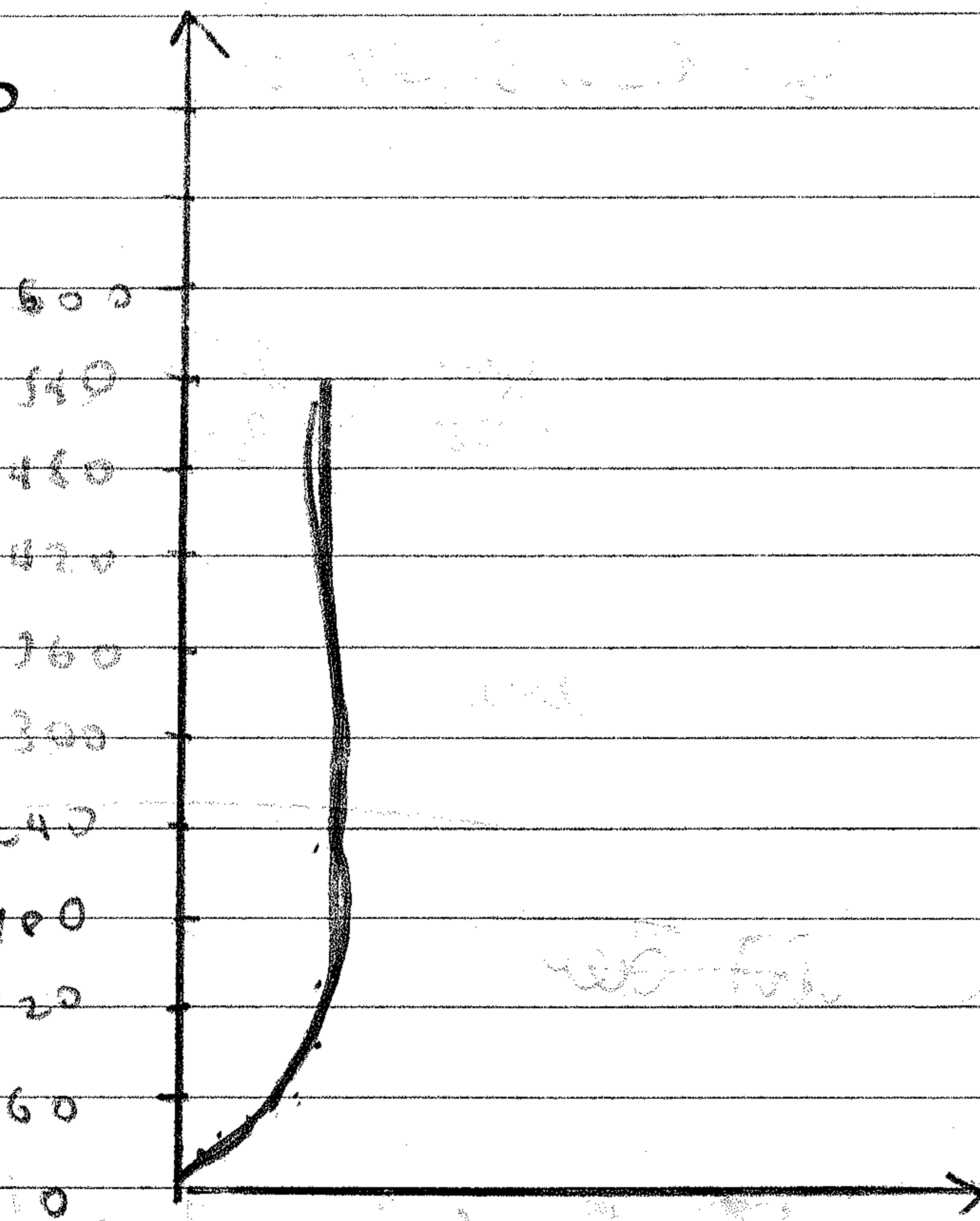
$$6) y = \frac{2000}{49} = 40.81$$

$$7) y = \frac{2000}{64} = 31.25$$

$$8) y = \frac{2000}{81} = 24.69$$

$$9) y = \frac{2000}{100} = 20$$

10



$$y = \frac{2000}{x^3} = 250$$

$$y = \frac{2000}{x^3} = 74$$

$$y = \frac{2000}{\sqrt{x}}$$

$$y = \frac{2000}{\sqrt{41}} = 1000$$

$$y = \frac{2000}{\sqrt{64}} = 250$$

$$x = y / \text{MAX_VALUE} \times 1000$$

$$\text{in_min} = 0$$

$$\text{in_max} = 1$$

$$\text{out_min} = 1000$$

$$\text{out_max} = 2000$$

$$\text{MAX_VALUE} = 300$$

$$\left(\frac{y}{300} \right)$$

$$\left(\frac{y}{300} \times 100 - 0 \right) (2000 - 1000)$$

$$(1 - 0) + 1000$$

$$= \frac{\frac{100 y}{300} \times 1000}{1001}$$

$$\text{in_max} = 1$$

$$\text{in_min} = 0$$

$$\text{out_min} = 1000$$

$$\text{out_max} = 2000$$

$$\text{MAX_VALUE} = 300$$

$$\frac{\left(\frac{y}{300} \times 100 - 0 \right) (2000 - 1000)}{(1 - 0) + 1000}$$

$$= \frac{\frac{100 y}{300} \times 1000}{1001}$$

$$= \frac{100 y}{3003}$$

Copter Creating in Steps.

Copter have a basics details. For
example

Firstly in a cyber electronics brain
secondly Motors
thirdly Dr. . .

Первый элемент

4 потока.

1) Моторы одновременно
жить должны.

3- должны

1 - моторы

~~Сначала~~ Сначала линейный код, потом
на линейность.


```
# define ultrasonic_1
```

```
void detect() {  
  if (ultrasonic_1 > 0 && ultrasonic_2 ... )  
}
```

No threads ... lot problems.

• → solution simplethread lib
→ Mega 2560 !

Or Microbit
→ Python 3
→ ARM cortex A0
4 threads.

Platform to develop code in a
GitHub.

1) Q. Q1) What we want create.

1) Shot four. About amino
2)