Ai task 2

Hussein Mohamed Hussein

Q1:how to make a nonlinear equation linear

```
Let's suppose that we have this equation Y = aX + b/X

First, we multiply by X

Y.X = aX^2 + b

Then, let's reform the equation

Y = aX + c
```

Will the answer be the same?

Yes

Q2:what is the nonlinear equation models

A nonlinear regression model is one that describes a nonlinear relationship between the dependent and the independent variables. Naturally, the equation of the model is a nonlinear equation.

examples of nonlinear functions include

- exponential functions
- logarithmic functions
- trigonometric functions
- power functions
- Gaussian function
- Lorentz distributions