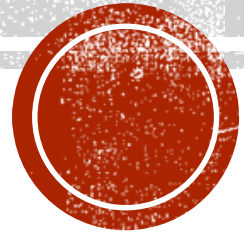
HOW PLOT GRAPH

HOW TO PLOT A GRAPH IN MEDICAL PHYSICS LAB

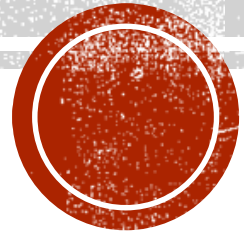


TYPYS OF GRAPH PAPER

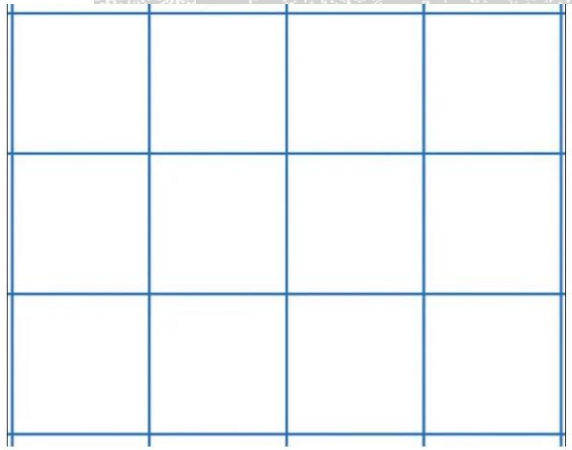
1 - Statistical graph paper.

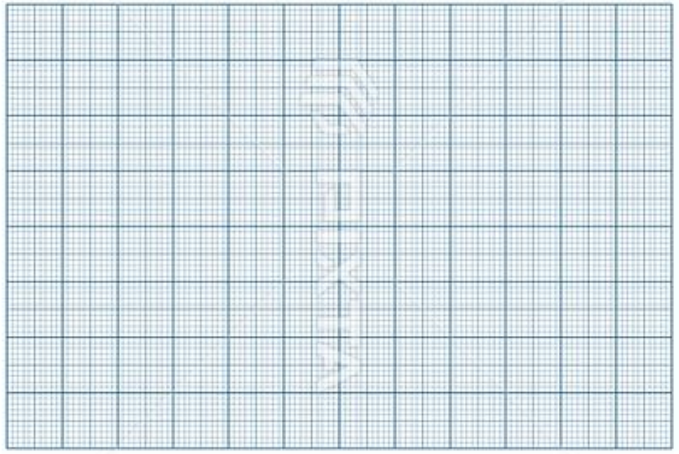
2 – Normal graph paper.

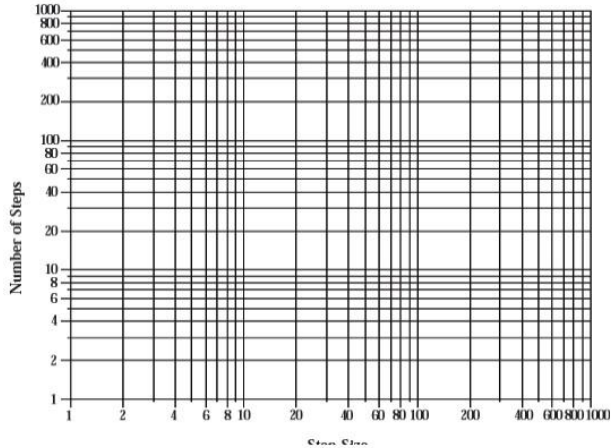
3 - Logarithmic graph paper.



SHAPES OF GRAPH PAPERS



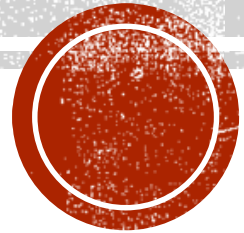




TYPES OF GRAPH LINES

1 - STRAIGHT LINE EQUATION (Y= mX±C).

2 - CURVED LINE EQUATION ($Y = mX^2$) .



3 -IRREGULAR LINE EQUATION (x^2y'' + (8x - 1)y' - (8x – 2y) = 0)

HOW TO GET DATA TO DRAWING GRAPH

1- Data tables.

2- Equations.

3- By reading & recording from instruments & tools that are used in measuring.

STEPS TO DRAWING GRAPH

1- Choose axes.

2- Draw axes.

3 - Give the names to axes.

4- Give suitable SI system Units to axes.

5 - Give weight to axes.

6 - Divide the axes depending on the recorded data from the measuring **tools & instruments**.

7 – Draw points on graph paper by use rular to drop x –axes on y-axes.

8 –Drawing the line that take the average of geometric positions of drawed points .

9 – Find the slope of the curve .

10 – Find error percentage.

.

IMPORTANT EQUATIONS

1 – Slope equation : (Slope = $\frac{\Delta y}{\Delta x} = y_2 - y_1 / x_2 - x_1$).

2 - Error percentage equation:

((Theoretical value - Practical value / Theoretical value)100%) .

IMPORTANT TOOLS TO DRAW GRAPH

1- Book of drawing paper.

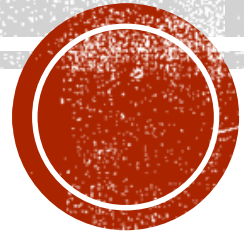
2 – Transperant Ruler (30cm).

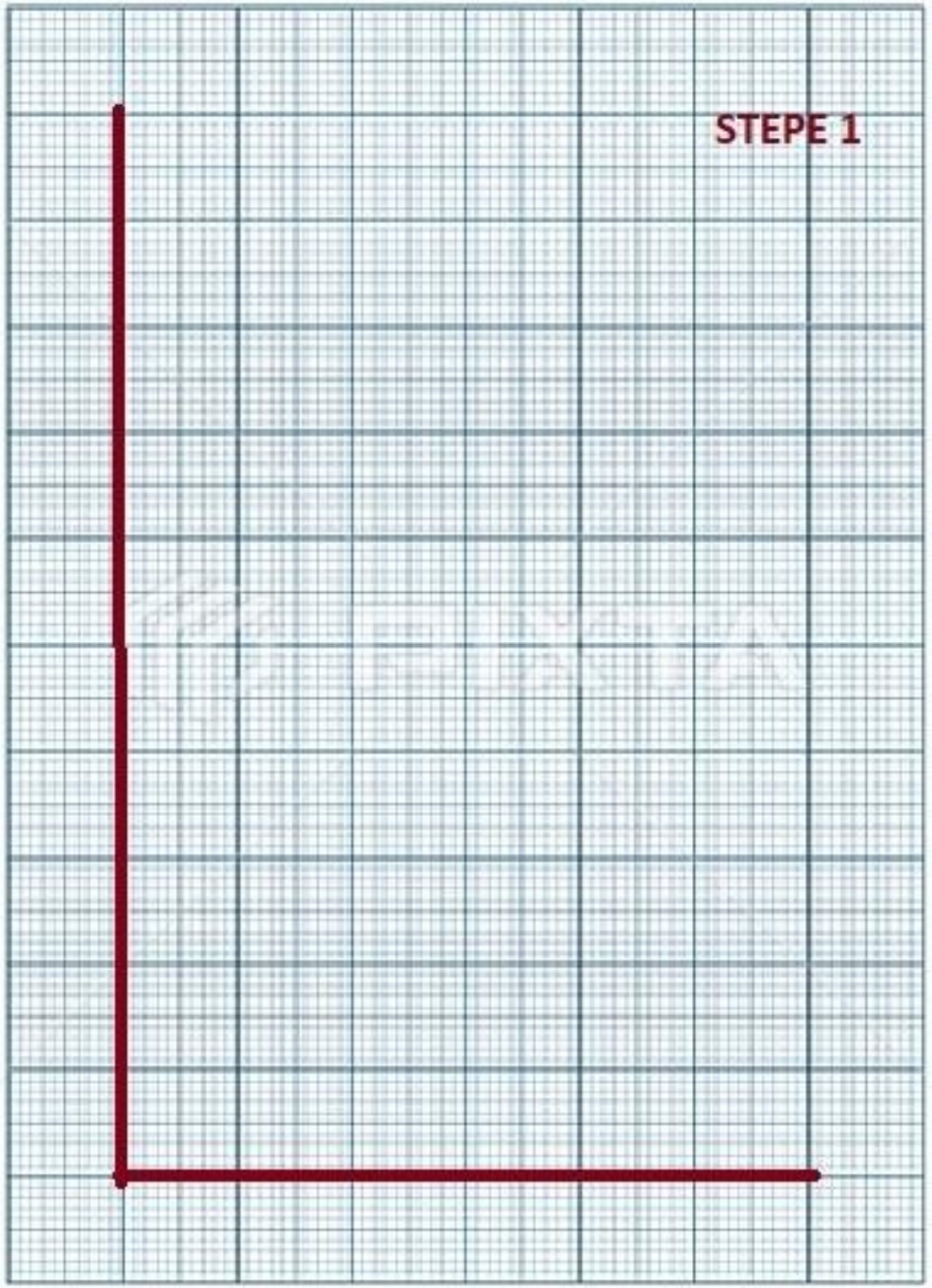
3 – pencils.

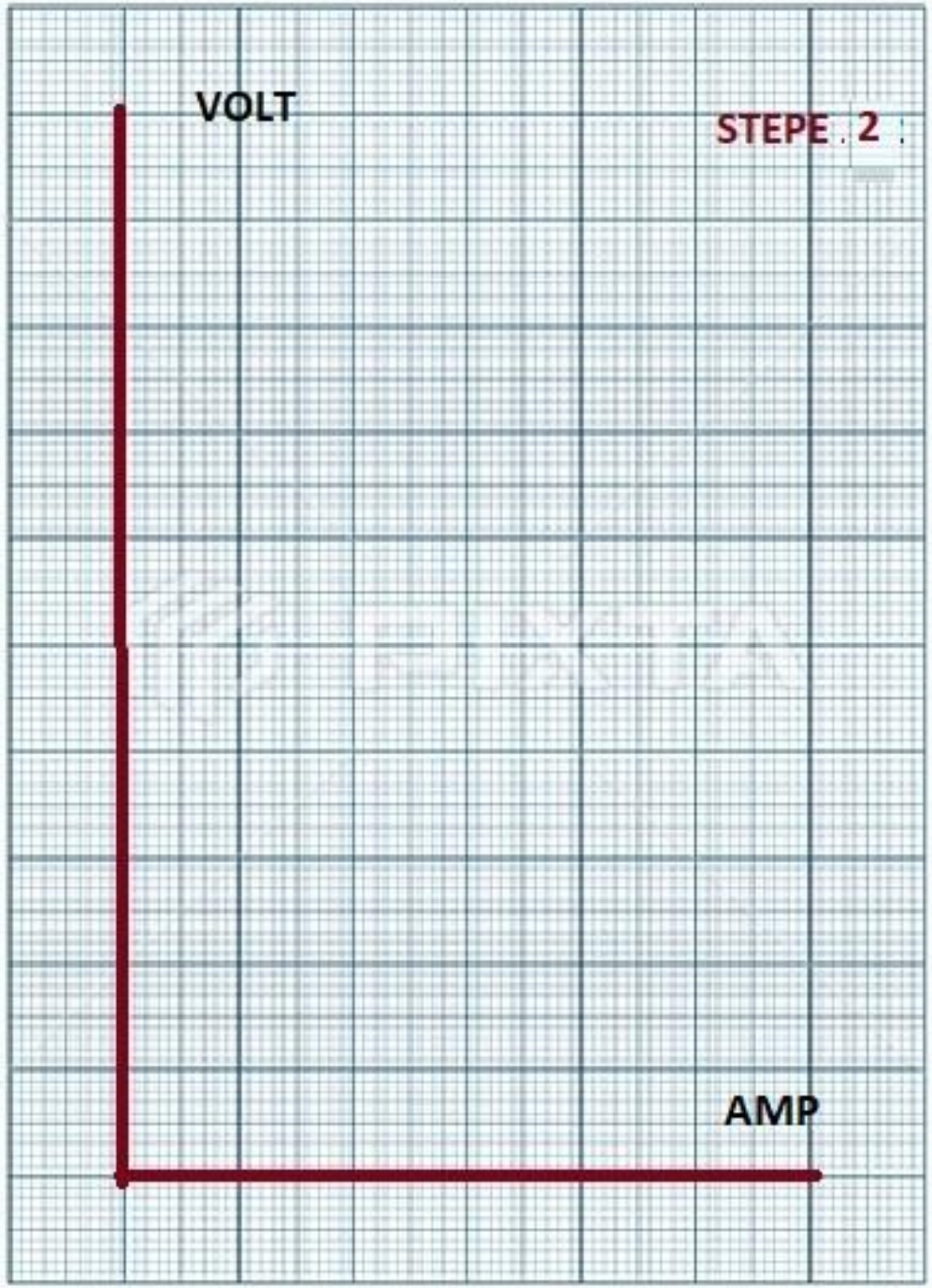
4 – Eraser.

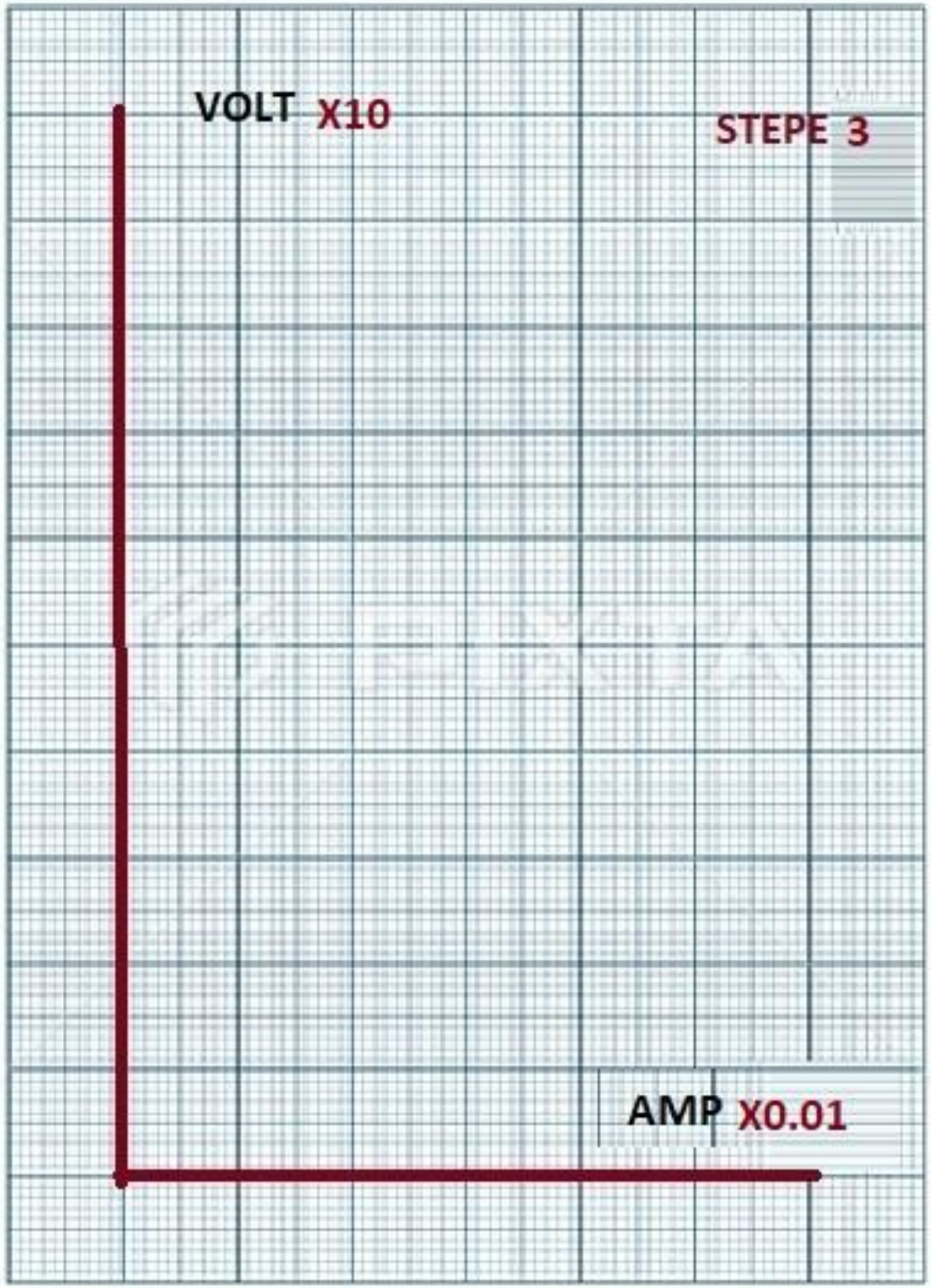
5 – pencils Sharpener.

6 – Simple electronic calculat.




STEPE 1


VOLT
STEPE 2
AMP


VOLT X10
STEPE 3
AMP X0.01


VOLT X10
STEPE . 4
9
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AMP X0.01
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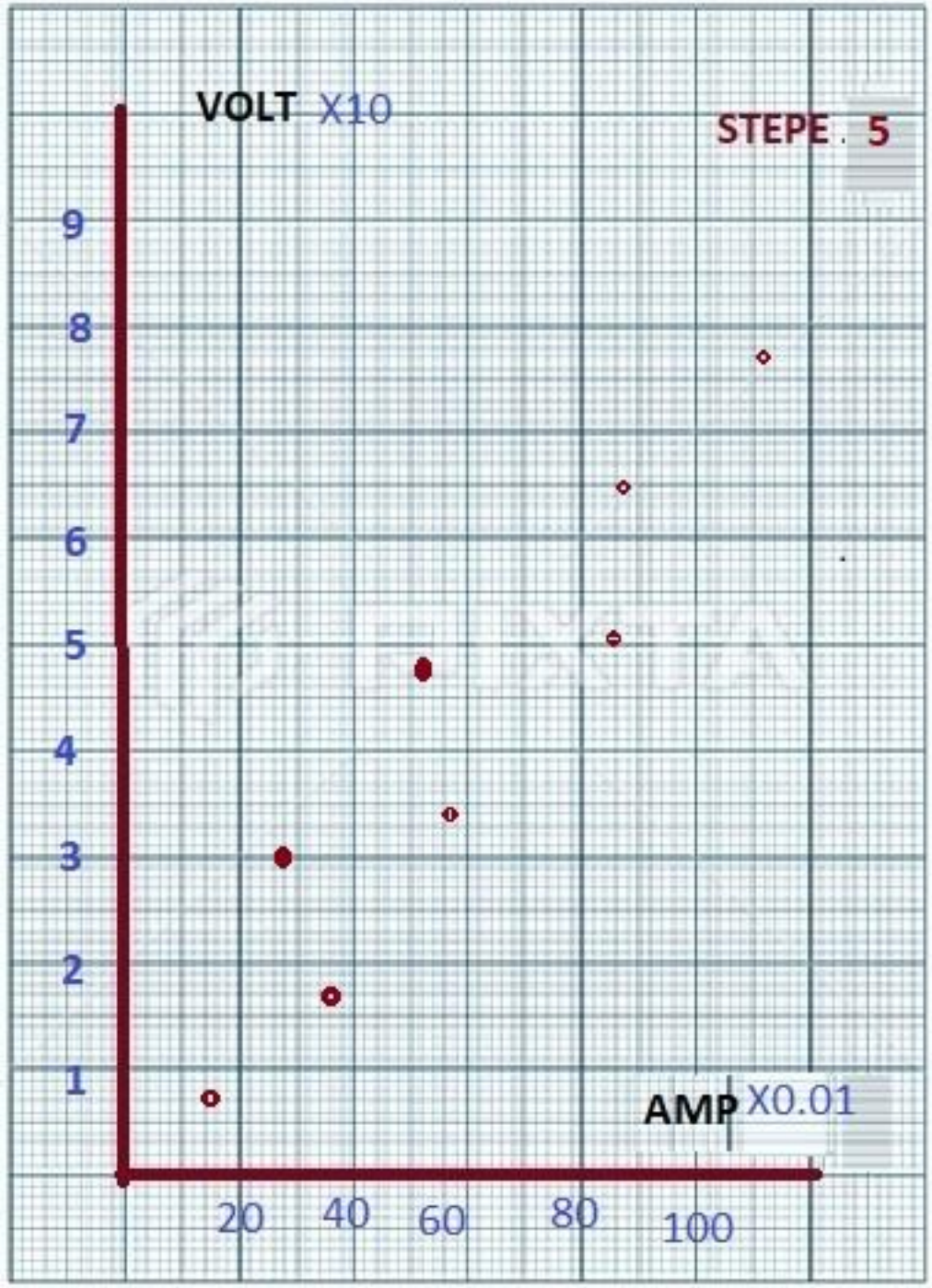
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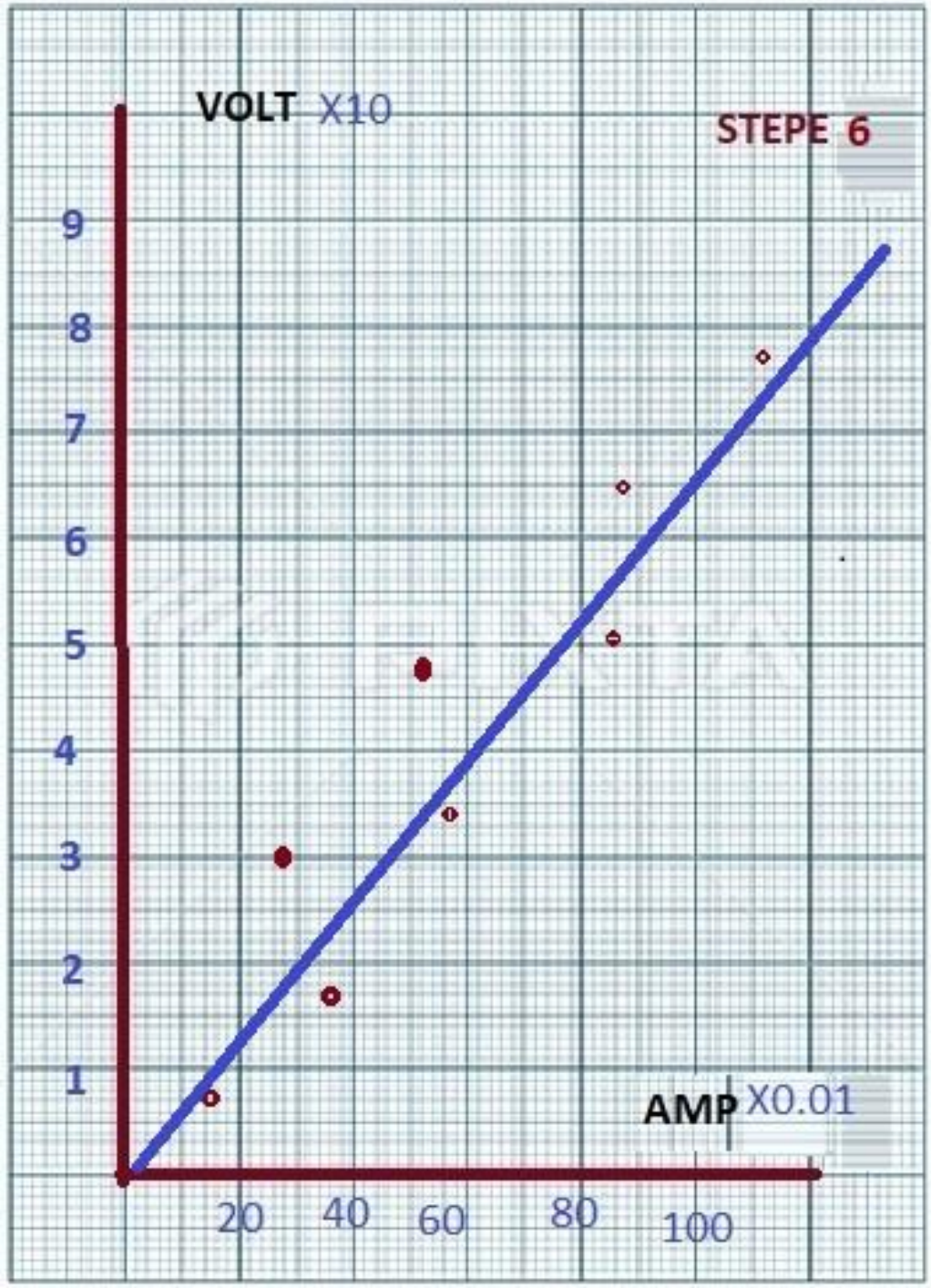
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STEPE 6
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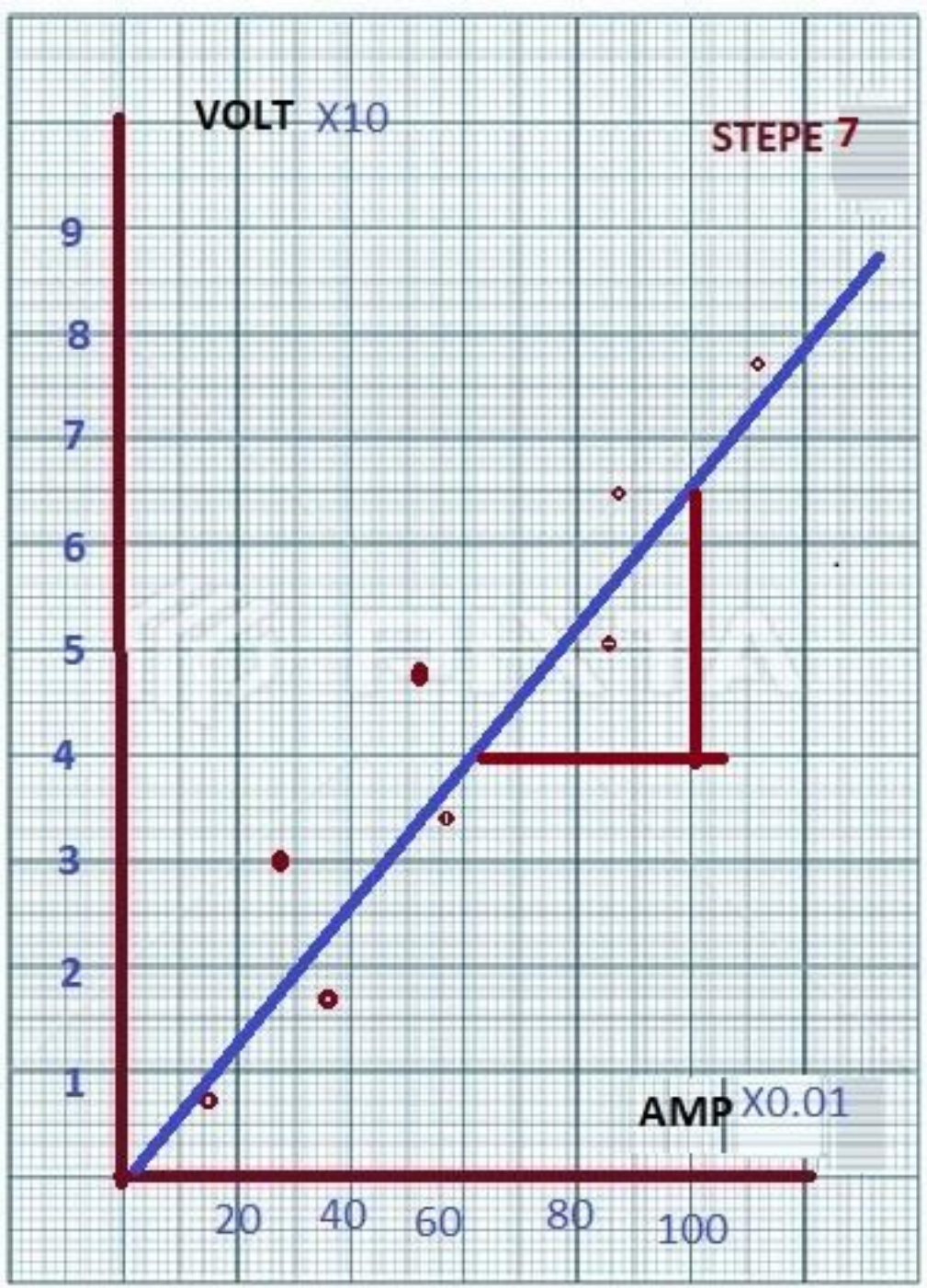
VOLT X10
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THANK YOU FOR LISTENING