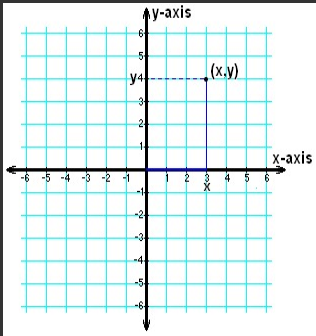
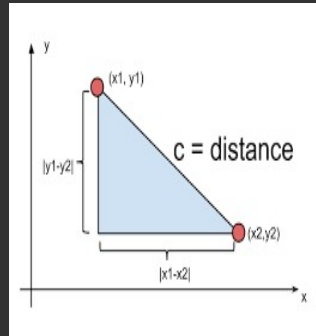




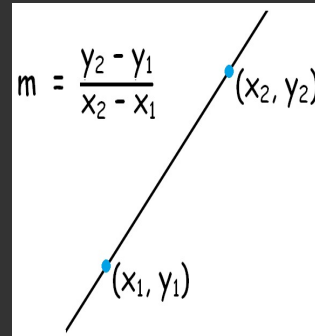
STRAIGHT LINES



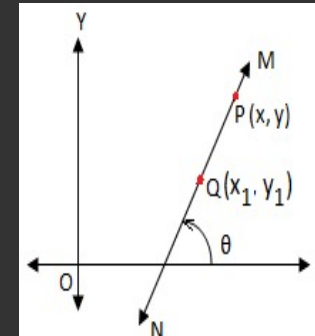
CO-ORDINATES OF
POINT



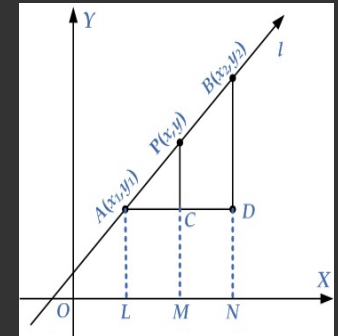
DISTANCE BETWEEN
TWO POINTS



SLOPE OF LINE



POINT SLOPE FORM



TWO POINT FORM

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COORDINATE OF THE POINT

HOME

SELECTED CO-ORDINATES ARE:

X value :

Y value :



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DISTANCE BETWEEN TWO POINTS

ENTER THE VALUE OF X1:

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ENTER THE VALUE OF X2:

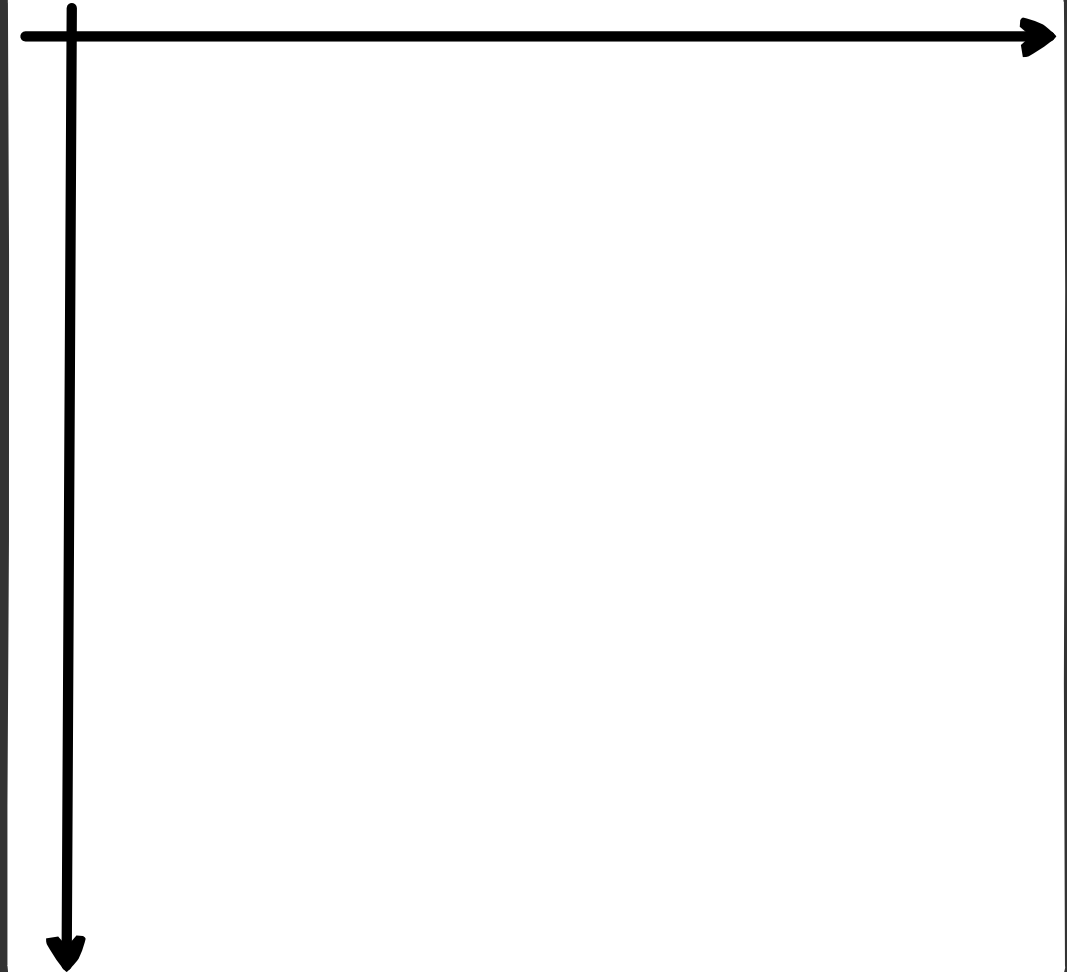
ENTER THE VALUE OF Y1:

ENTER THE VALUE OF Y2:

calculate

reset

distance between two points :





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SLOPE OF LINE

ENTER THE VALUE OF X1:

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ENTER THE VALUE OF X2:

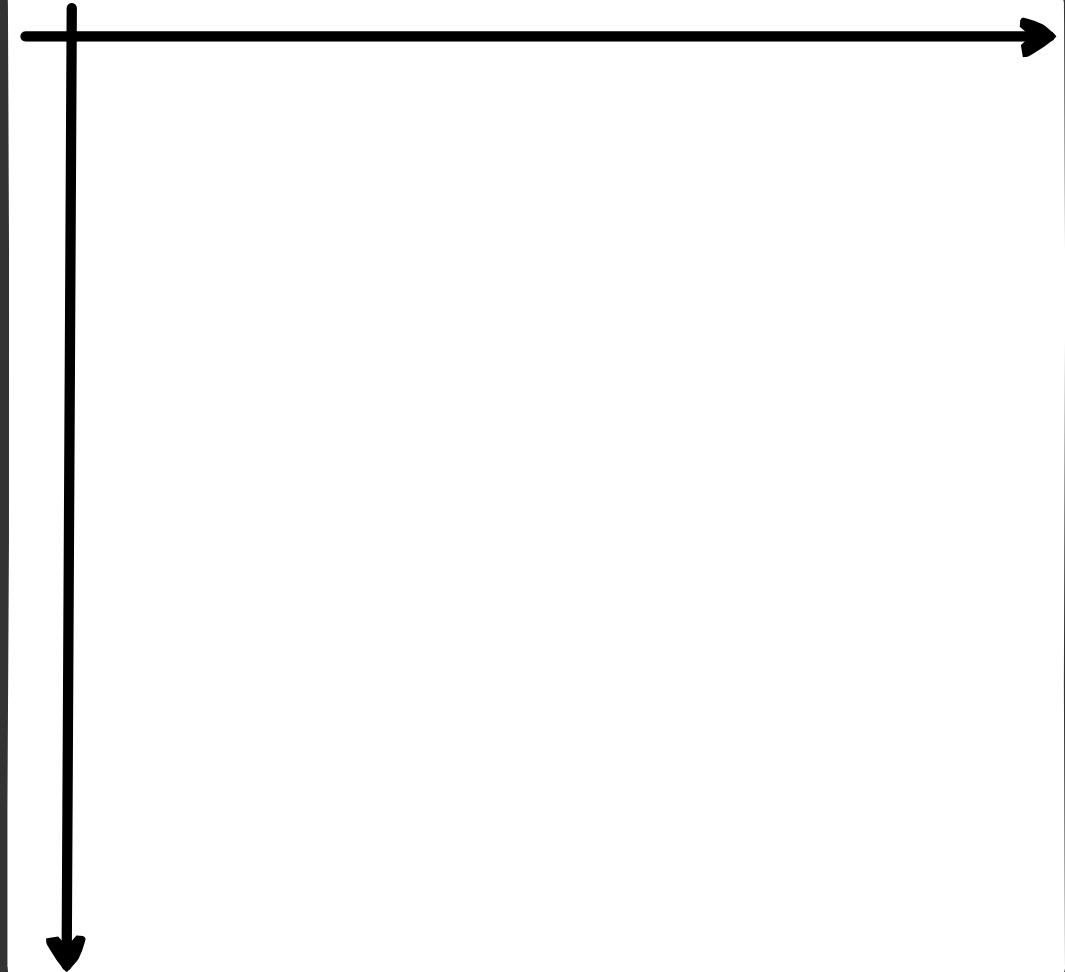
ENTER THE VALUE OF Y1:

ENTER THE VALUE OF Y2:

calculate

reset

sloope of the line :





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POINT SLOPE FORM

ENTER THE VALUE OF X :

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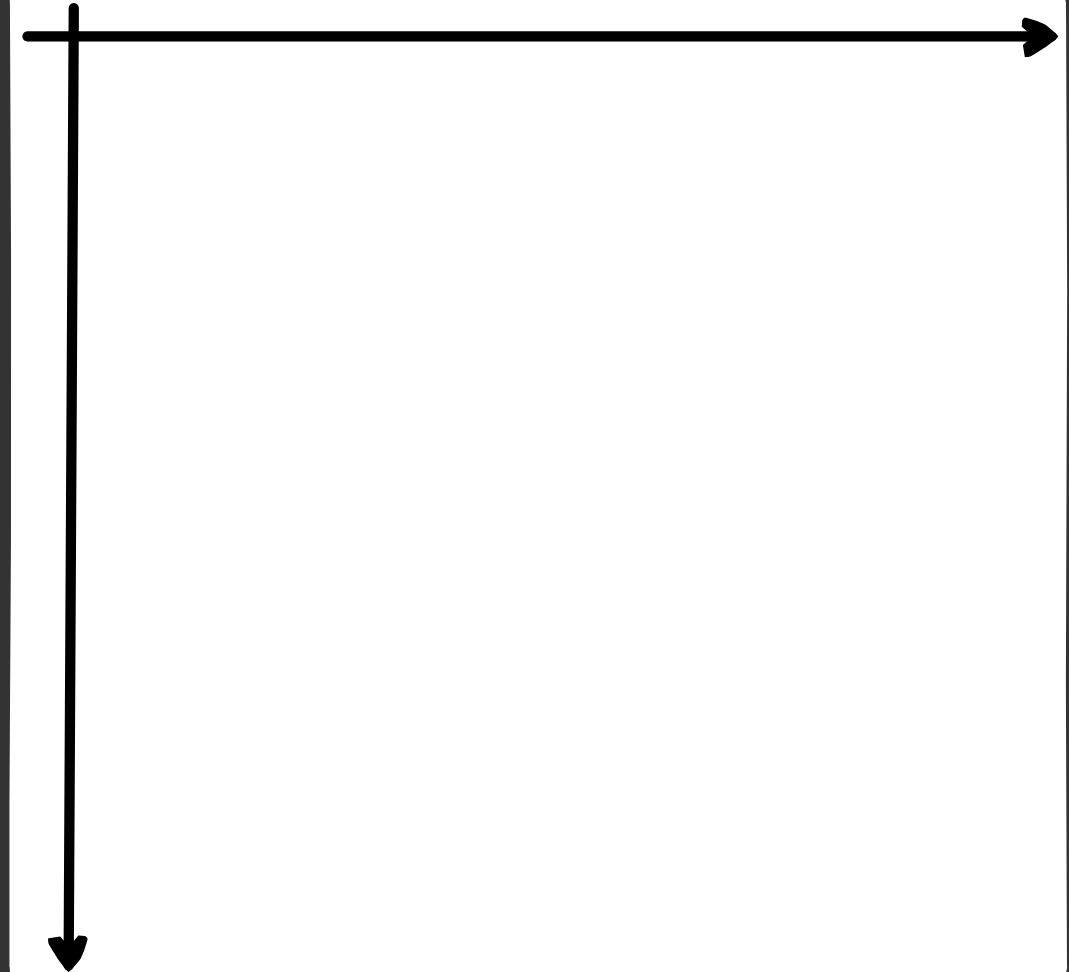
ENTER THE VALUE OF Y :

enter the value M (slope) :

calculate

reset

EQUATION OF THE POINT SLOPE FORM :





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TWOPOINT FORM

ENTER THE VALUE OF X1:

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ENTER THE VALUE OF X2:

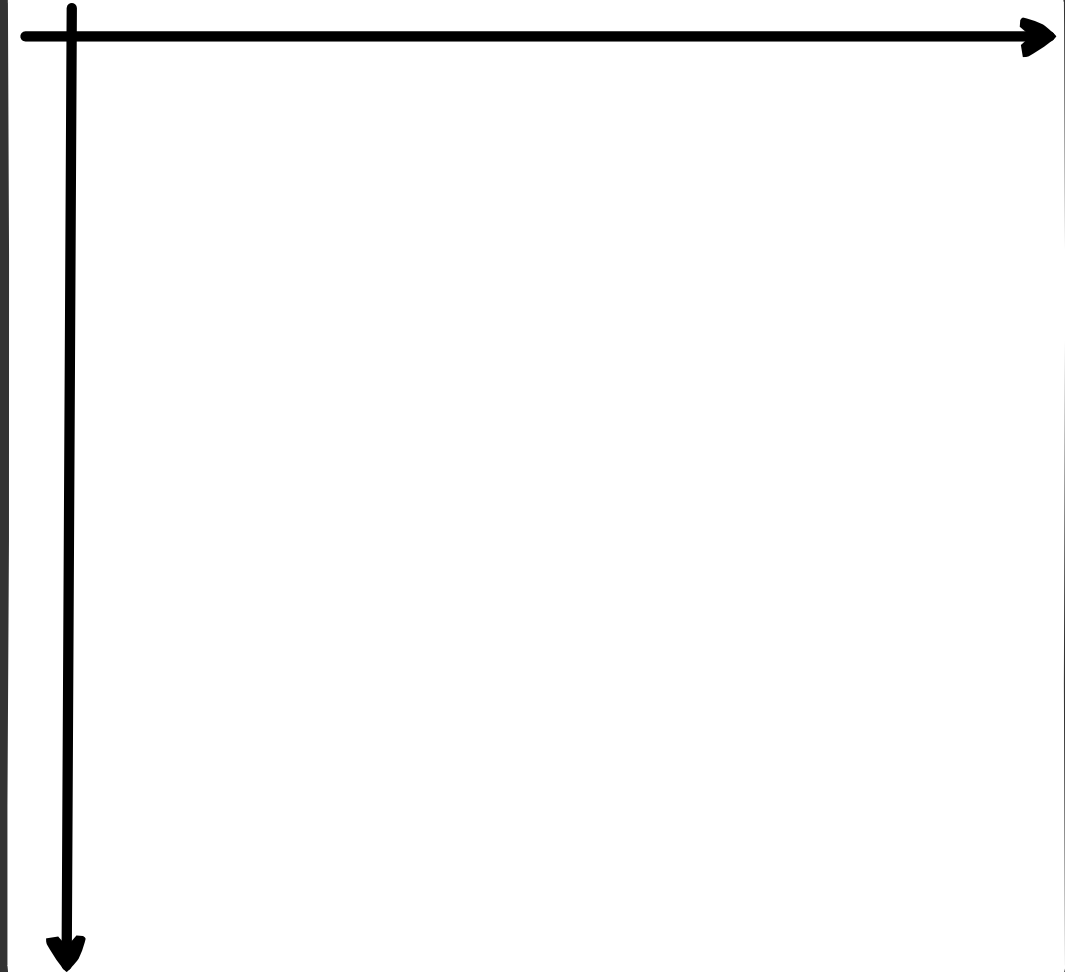
ENTER THE VALUE OF Y1:

ENTER THE VALUE OF Y2:

calculate

reset

EQUATION OF THE LINE:





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COORDINATES OF THE POINT

The coordinates of a point are a pair of numbers that define its exact location on a two-dimensional plane. Recall that the coordinate plane has two axes at right angles to each other, called the x and y axis. The coordinates of a given point represent how far along each axis the point is located.

DISTANCE BETWEEN TWO POINTS

Distance between two points is the length of the line segment that connects the two given points. Distance between two points in coordinate geometry can be calculated by finding the length of the line segment joining the given coordinates.

FORMULAE: The formula for the distance between two points whose coordinates are (x_1, y_1) and (x_2, y_2) is:

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

SLOPE OF THE LINE

Use the slope formula to find the slope of a line given the coordinates of two points on the line. The coordinates of the first point represent x_1 and y_1 . The coordinates of the second points are x_2, y_2 .

FORMULAE: $m = (y_2 - y_1) / (x_2 - x_1)$

SLOPE POINT FORM

Point slope form is used to represent a straight line using its slope and a point on the line. That means, the equation of a line whose slope is 'm' and which passes through a point (x_1, y_1) is found using the point slope form. Different forms can be used to express the equation of a straight line. One of them is point slope form.

EQUATION: $y - y_1 = m(x - x_1)$

TWO POINT FORM

Two point form is one of the important forms used to represent a straight line algebraically. The equation of a line represents each and every point on the line, i.e., it is satisfied by each point on the line. The two-point form of a line is used for finding the equation of a line given two points (x_1, y_1) and (x_2, y_2) on it.

EQUATION: $y - y_1 = \frac{y_2 - y_1}{x_2 - x_1} (x - x_1)$ OR $y - y_2 = \frac{y_2 - y_1}{x_2 - x_1} (x - x_2)$ Here, (x, y) represents any random point on the line and



ABOUT US

NAME : SACHIN
SRN : PES1PG21CA168
ROLE : A

NAME : NARASIMHALU R
SRN : PES1PG21CA154
ROLE : B

NAME : ADITYA H
SRN : PES1PG21CA124
ROLE : C

NAME : PRASANNA
SRN : PES1PG21CA160
ROLE : D

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