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THE CARTESIAN PLANE

The *xy*-plane is also called the plane and is named after the mathematician

The horizontal axis is called the _____- axis and

the ______ axis is called the *y*-axis.

The *x*-axis and *y*-axis meet at the ______. All points can be labeled with ______ and expressed as ordered pairs, (_____, ____).

The *xy*-plane is divided into ______ quadrants, called quadrants 1, 2, 3, and 4. (I,II,III,IV) Always label the axes and mark the scale, as shown, on the *xy*-plane.

ACTIVITY:



3. Graph these points on the *xy*-plane above. Include the labels (the capital letter).

A(2, 3) B(5, -1) C(-2, 3) D(-4, -5) E(0, 3) F(-4, 0)

MFM2P-LINEAR RELATIONS UNIT 2 – DAY 1 - NOTE			DATE:			
SLOPE						
Linear Relation: The	between	variables that a	ppears as a	_ on a		
Slope: Measures the	of a	·				
 It measures the " with respect to another poi 	nt.	_" of one point				
 Ask: For every unit change 	in "", how much does	"" change?				
RISE: The	distance between	points on a				
RUN: The	distance between	points on a				

CALCULATING SLOPE:

The variable used to represent slope is "_____"

To calculate slope, use the equation:



Examples:





POSITIVE vs. NEGATIVE SLOPE

Positive Slope:	Follow the line from left to right: the	go	es	
Negative Slope:	Following the line from left to right:	the	_ goes	,