AWMath 11 Name:
DAY 6 Cartesian Plane class notes
Cartesian Plane. GRD WITH HONZONTAC + VERTICAC

- Points placed on Grad $(x, y)$
- 4 Quadrants

Coordinate Points

$$
\begin{aligned}
& A=(-6,1) \\
& B=(-2,-2) \\
& C=(4,6) \\
& D=(0,0) \text { "0, } 141,2 " \\
& E=(0,4) \\
& F=(4,0) \\
& G=(7,-4)
\end{aligned}
$$



HOW TO Calculate Slope on a Cartesian Plane

1. Find two points with exact coordinates
2. Use the slope formula


## AWHath 11 Name:

## EXAMPLE 1

Find the slope of the line below


The slope of a line can be...
a.


## AWMath 11

## DAY 6 Cartesian Plane assignment continued

1. Plot the pairs of coordinate points below and then find the slope of the line between them.

| Points | Slope |
| :---: | :---: |
| $m=\frac{y 2-y 1}{x 2-x 1}$ |  |
| $x 1$ 41 <br> $(-5,4)$  <br> $(4,-3)$  <br> $x 2$ 42 | $y=\frac{-3-4}{4-(-5)}=\left(\frac{-7}{9}\right)$ |
| $(-2,-1)$ |  |
| $(3,-5)$ |  |




## av math <br> $$
M=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}=\frac{R S E}{R v}
$$

2. Find the slope of the lines.

b.


$$
=\left(\frac{1}{3}\right.
$$



f.


