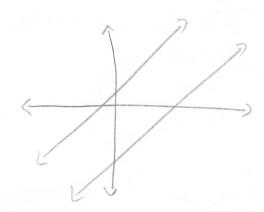


PARALLEL LINES



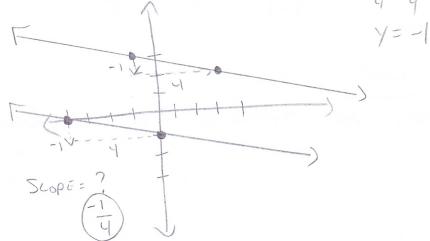
LINES WITH THE SAME SLOPE.

EX GRAPH THE LINE THROUGH (-1,3) THAT IS

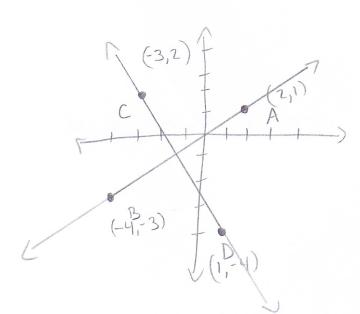
PARALLEL TO THE LINE WITH EQUATION X+4y = -4

$$x+4y=-4$$
 $x-1NT=> x+4(0)=-4$ $x=-4$ $(-4,0)$

$$y - 1NT = 0 + 4y = -4$$
 $4y = -4$
 $4y = -4$







$$\frac{-3-1}{-4-2} = \frac{-4}{-6} = \frac{2}{3}$$

$$\frac{2-(-4)}{-3-1} = \frac{6}{-4} = \frac{3}{2}$$

PERPENDICULAR LINES

SLOPES ARE OPPOSITE RECIPROCALS

EXZ] GRAPH LINE THROUGH (-3,1)

THAT IS PERPENDICULAR TO THE

LINE W/ EQUATION 2x+ 5y=10

 $X-INT \Rightarrow Z_{X}+5(0)=10$ $Y-INT \Rightarrow Z(0)+5_{Y}=10$ $Z_{X}=10$ X=5

(5,0) (0,2) (0,2) (0,2) (0,2)

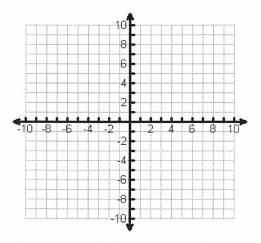
WHAT'S THE SCOPE ?

 $\frac{0-2}{5-0} = -\frac{2}{5}$

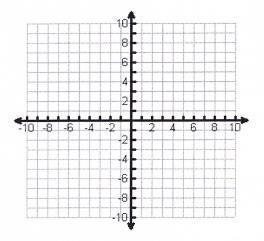
SO LINE L=) SLOPE = 5

HW.

1) Graph the line through (1, -2) that is parallel to the line with the equation x - y = -2.



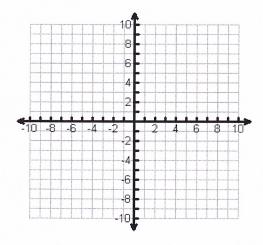
Graph the line through (2, 1) that is perpendicular to the line with the equation 2x - 3y = 3.



Topics of Advanced Algebra 2.3 Exit Slip

Name______Period _____

1) Graph the line through (1, -2) that is parallel to the line with the equation x - y = -2.



Graph the line through (2, 1) that is perpendicular to the line with the equation 2x - 3y = 3.

