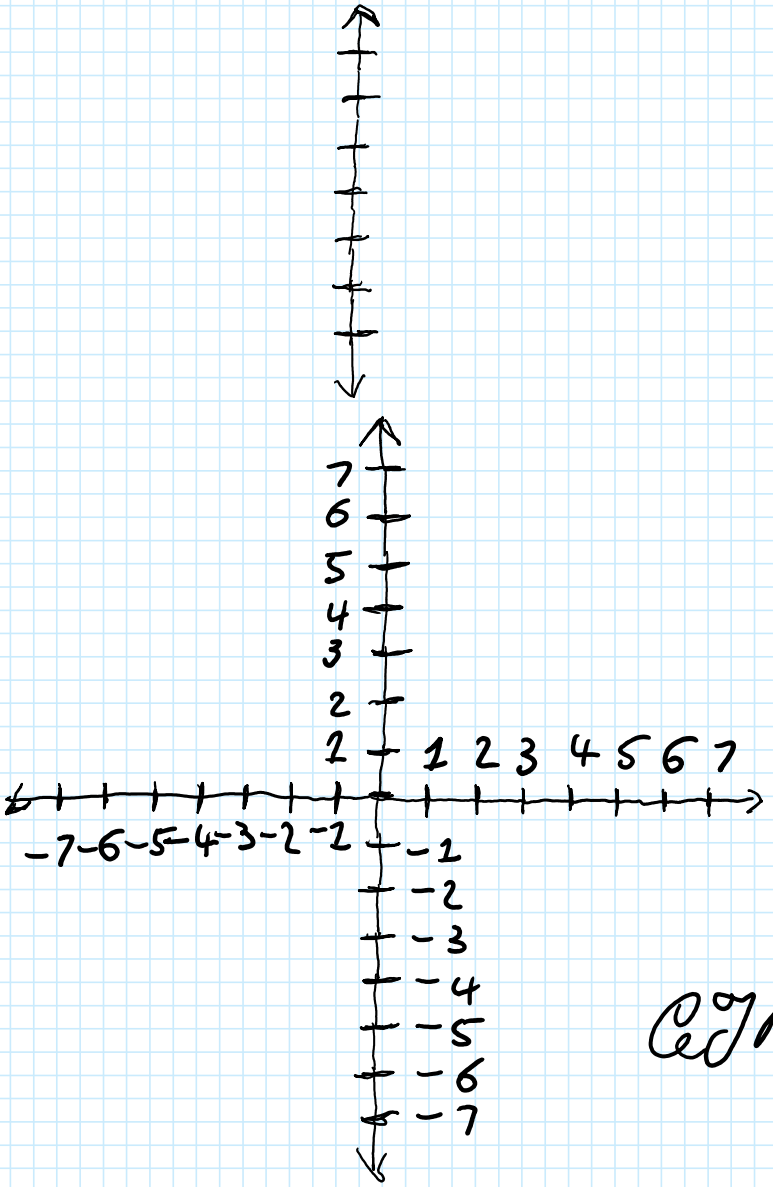
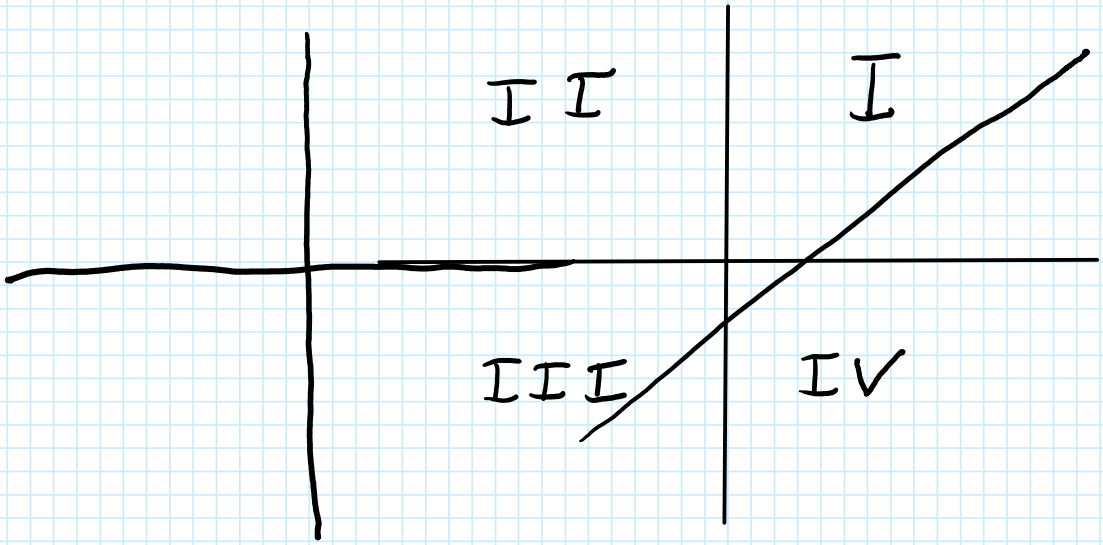
Cartesian Plane

two-dimensional space

vertical - y
horizontal - x





Each point in the plane is defined by an

x-coordinate abscissa

y-coordinate ordinate

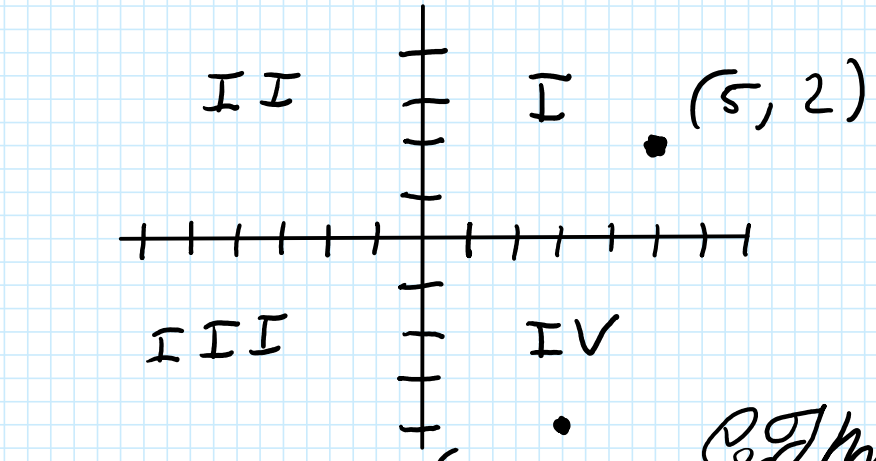
ordered pair

(x, y)

5, 2

abscissa → 5

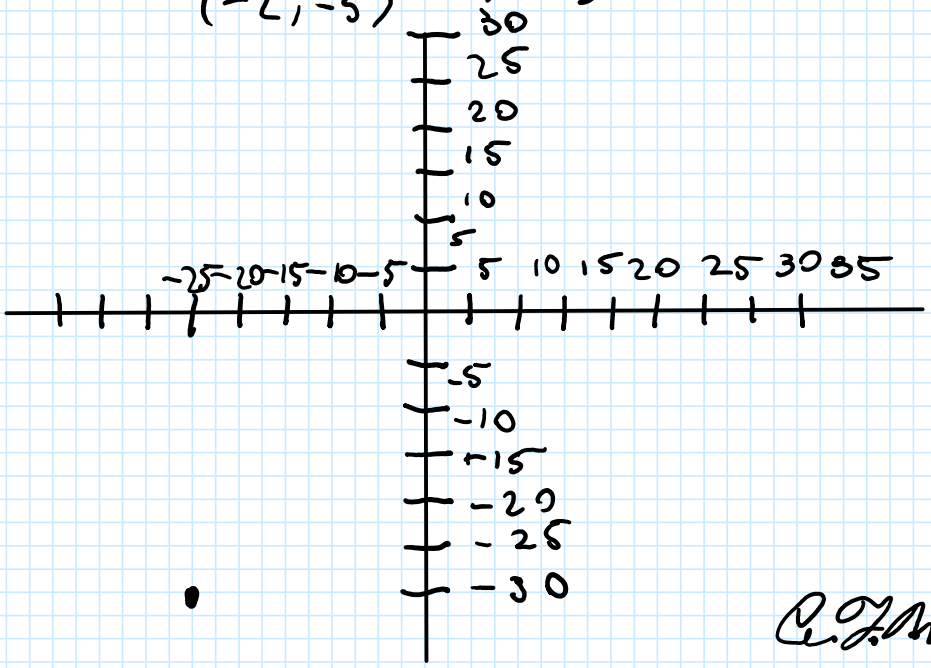
ordinate → 2



QI

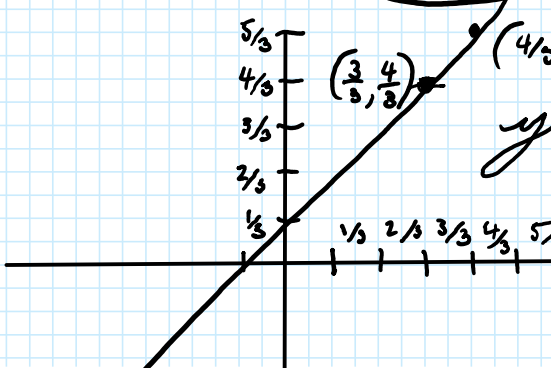
(-2, -5)

(3, -4)



QIV

plot: $\left(\frac{4}{3}, \frac{5}{3}\right)$

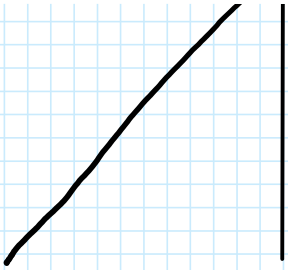


$y = x + \frac{1}{3}$

$y = \frac{3}{3} + \frac{1}{3}$

$= 1 + \frac{1}{3}$

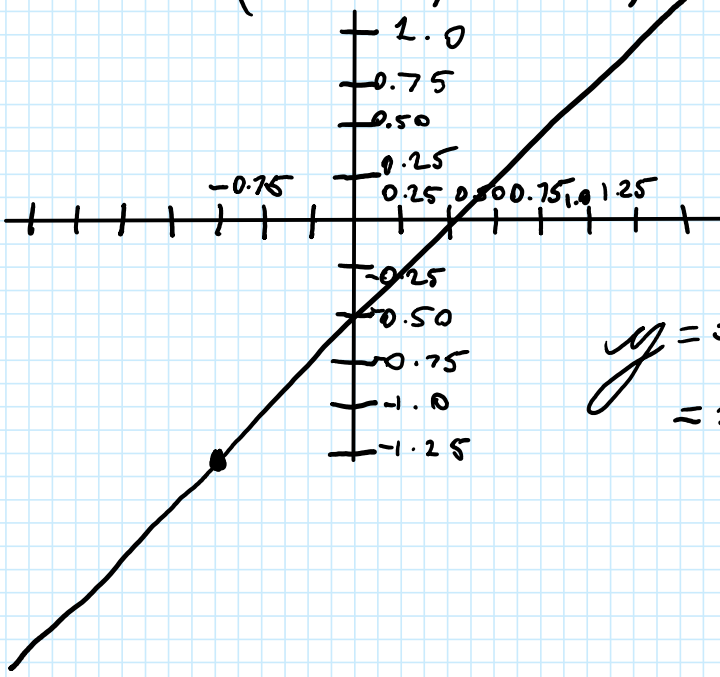
$y = \frac{4}{3}$



$= 1 + \frac{1}{3}$

$y = \frac{4}{3}$

plot: $(-.75, -1.25)$

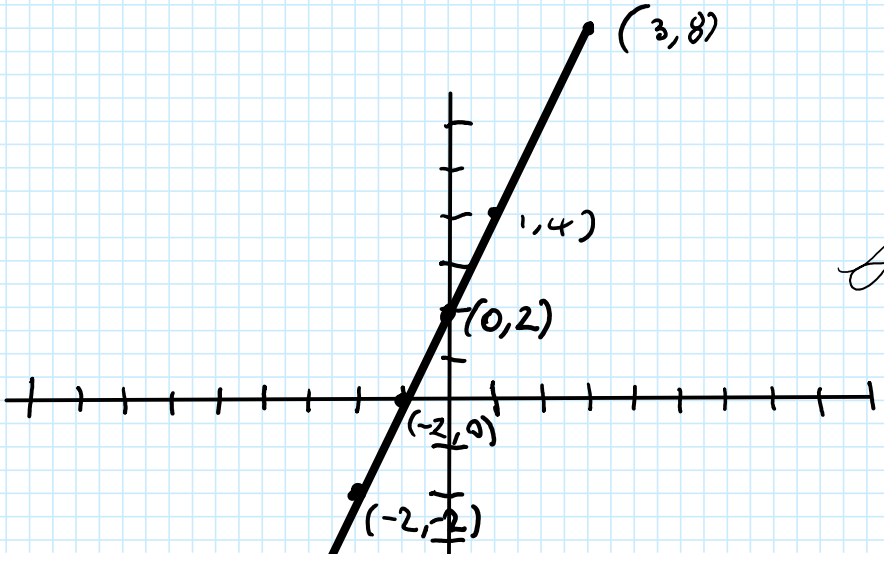


$y = x - 0.50$

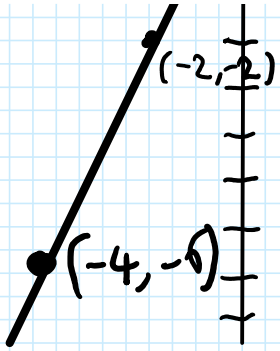
$= x - \frac{1}{2}$

DONE FOR TODAY

Charles J.



straight line



segment

$y = 2x + 2$