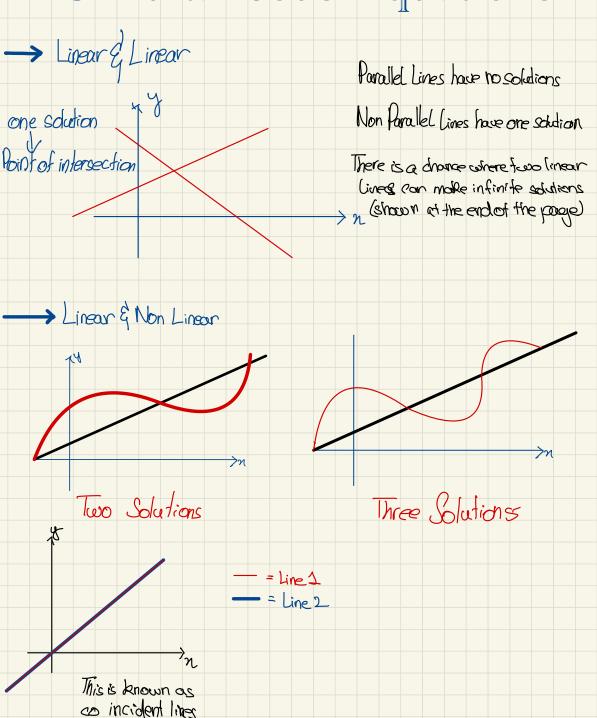
Simultaneous Equations



Linear & Linear

$$\frac{1}{3n} - \frac{2y}{3n} = \frac{1}{-3}$$

$$\frac{3n}{-3y} = \frac{-7}{-2}$$

$$\frac{-3y}{-6y} = \frac{-15}{-7}$$

$$\frac{-3n}{-5y} = \frac{-7}{-7}$$

$$\frac{+21y}{-12y} = +22$$

$$\frac{-2}{-2}$$

$$\frac{3}{14} = +22$$

$$\boxed{4 = 2}$$

$$3n-5y = -7$$

 $3n-10 = -7$
 $3n = 3$
 $n=11$

$$n=5-2y$$
 $\rightarrow n=5-2(2)$
 $3(5-2y)-5y=-7$ $n=4$

$$15 - 6y - 5y = -7$$
 (1,2)

Linear and Non Linear

eg 1 y= n2

eq2: 274 y= 4

y=n+6 y= 4-22

(4-2n)2-4n =0 y = n+6 16-16n+4n2-4n=0 2+6= n2 16 -20x +4n2=0

4n2-2021/16=0 0: n-n-6 4 (n2-5n+ 4=0 = n-3n+2n-6 n2 - 4n -n=4=0

= n(n-3)+2(n-3)= (n-3)(n+2)n=3n=2nln-4)-1(n-4)=0 (n-u) (n-1)=0 n=4 n=1

y=4-26) y=4-2 y=4-8 y=2

y= 716 y= -2+6 y= 4 y= n+6 8=-4 y = 3+6 (4,-4), (1,2) 9=9

3(1-2+)2+2+2=17 38 +24 = 1

002 > 382 + 2t2 = 11 3 (1-4+44+2) +2+2=1 S= 17 16 S 1-4+442 = 33 S= 1-4 10t2-4+1=33 - -1 10t2-4+-32=0 <u>~</u> <u>7</u> 2 (St)=24-16)=0 St2-26-16=0

(2,-1), (7 J 3) t=2 or t=-8

$$0.1 \Rightarrow n+y=2$$

$$2n^{2}+ny+1=0$$

$$y=2-n \Rightarrow y=2$$

$$2n^{2}+n(2-n)+1=0$$

$$x^{2}+2n+1=0$$

$$x^{2}+2n+1=0$$

$$x(n+1)+x(n+1)=0$$

$$(n+1)+x(n+1)=0$$

$$(n+1)+x(n+1$$