C.I. 
$$(|-Z| \times + Zy = 1)$$
 $(z-1) \times + Zy = 0$ 

Ex + Zy = 0

The two lines are not parallel, which means there must be one and only one solution if the equetions are continuous.

C.Z. ad = bC

A = C

b d

Ax + by = 0

by = -ax

y = -ax

y = -ax

y = -ax

Given ad = bC, we can show dy = -cx

the libe equetions as equal.

Cx + dy = 0

Hence there are infinite

Southern System.

$$a,b,c,d \in C$$

$$\lambda \in \mathcal{C}$$

$$ax + by = \lambda x$$

$$X(a-\lambda) + by = Cx + y(d-\lambda)$$

$$x(a-(-\lambda)=y(d-b-\lambda)$$

$$A = a - c - \lambda$$

$$B = d - b - \lambda$$

$$A \times = By$$

This can be anywhere in the complex plane as long as A and B are of some magnitude.