## **GATE 2018 SYLLABI**

Unique, Infinite, Many, Consistent, Inconsistent Solutions?

```
1) a_1x + b_1y = c_1
```

2) 
$$a_2x + b_2y = c_2$$

If

 $a_1/a_2 \neq b_1/b_2$ 

Than, its called unique solution.it means intercepting lines.Its also called consistent solution.

If

 $a_1/a_2 = b_1/b_2 \neq c_1/c_2$ 

Than its called no solution. It means parallel lines. Its also called inconsistent solution.

lf

 $a_1/a_2 = b_1/b_2 = c_1/c_2$ 

Than, its called infinite many soluiton. It means coincident lines. Its also called consistent solution.

For example-

① 
$$\frac{3}{2}x + \frac{5}{3}y = 7$$
②  $9x - 10y = 14$ 
Equ. ① can be standardized, ①  $x6$ ,
 $9x + 10y = 42$ 
Now, ①  $9x + 10y = 42$ 
②  $9x - 10y = 14$ 
②  $9x - 10y = 14$ 
 $0 = \frac{9}{2}$ 
 $0 = \frac{1}{2}$ 
 $0 = \frac{1}{2}$ 
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 $0 = -1$ 
 $0 =$ 

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