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

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

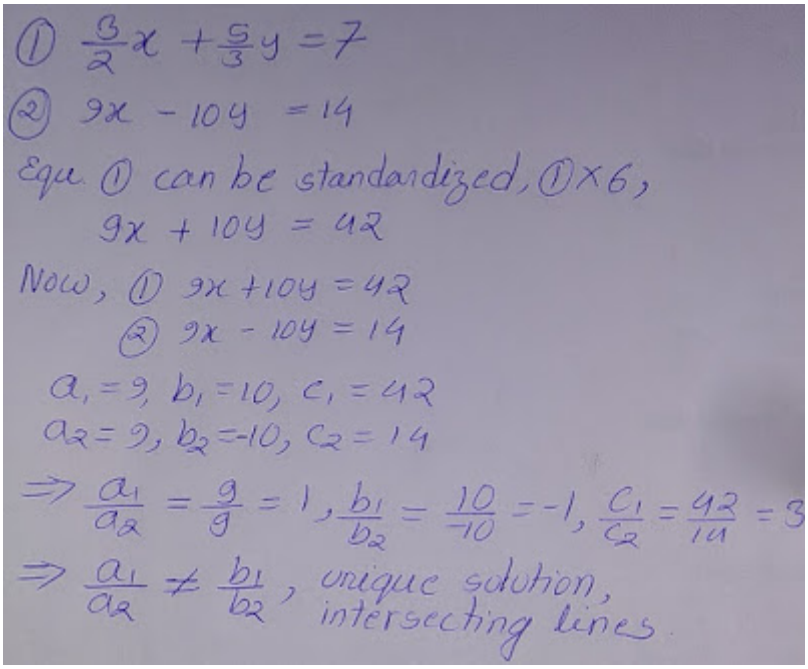
Than its called no solution. It means parallel lines. Its also called inconsistent solution.

If

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

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

For example-



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