

Tips & Tricks,

Previous:

1) To find Lr distance just put the point in the line & divide by $\sqrt{a^2+b^2}$

example

Lr dist of $10x + 9y - 19 = 0$ from $(2, 1)$

Put $(2, 1)$ in the line

$$(10(2) + 9(1) - 19) = 10$$

divide by $\sqrt{10^2 + 9^2}$

$$\text{Ans} = \frac{10}{\sqrt{181}}$$

2) Lr distance from origin is simply

$$= \frac{|C|}{\sqrt{a^2+b^2}}$$

Eg. $2x + 7y = 9$

Lr dist from $(0, 0)$ is $\frac{9}{\sqrt{53}}$

3) Lr distance b/w 2 Lines must only be calculated after making x, y coefficients same!

Example Lr dist b/w $2x + 4y + 7 = 0$

is $\frac{7-1}{\sqrt{1^2+2^2}}$ $\frac{\frac{1}{2}-1}{\sqrt{1^2+2^2}}$ $x + 2y + 1 = 0$