

Q) Two sides of a square lies on line $x+y=1$ & $x+y+2=0$, what is its area?

$$\left. \begin{array}{l} x+y-1=0 \\ x+y+2=0 \end{array} \right\} \parallel \text{ lines}$$

dist. b/w \parallel lines,

$$d = \frac{|2 - (-1)|}{\sqrt{1^2 + 1^2}} = \frac{3}{\sqrt{2}} \text{ unit.}$$

$$\text{Area} = \frac{d^2}{2} = \frac{9}{2} \text{ unit}$$