

Live passing though (1,1) and (2,0) $y = \frac{0-1}{2-1} \times +c$ y = -x+c Applying (x,y) = (2,0) 5 = -2 + c c = 2 x + y = 2Solving (1) & (2)

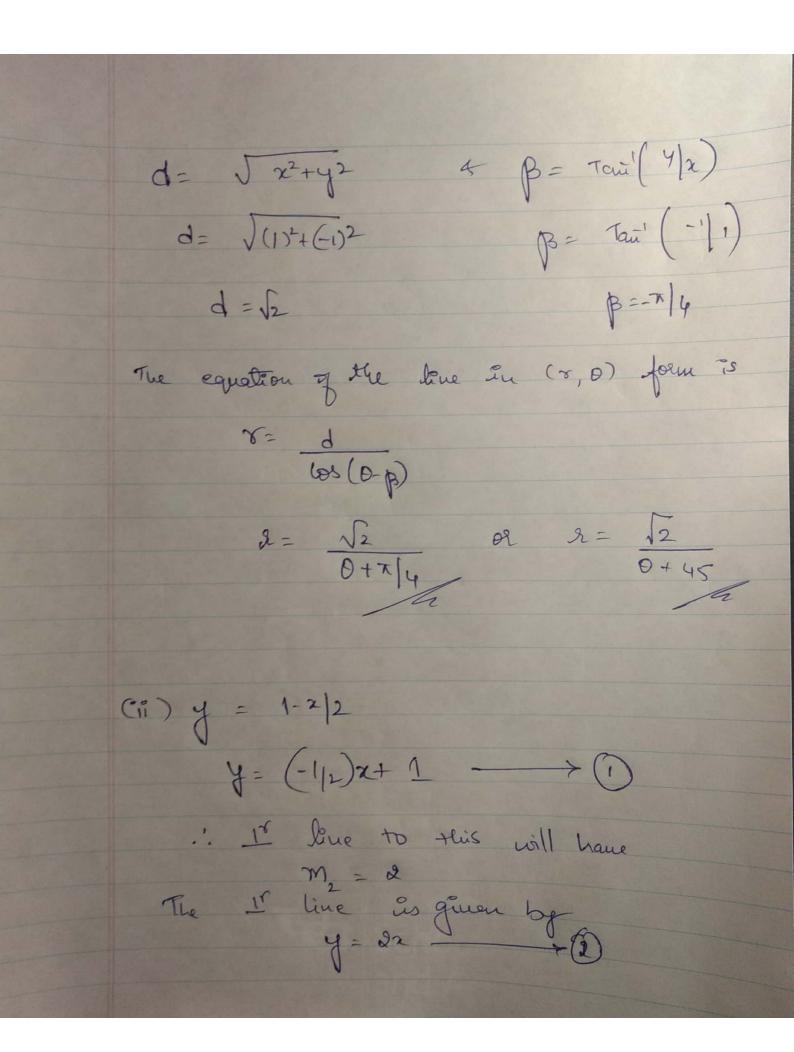
x + 6y = 1

x + y = 2

-7y = -1

y= 1/7 x= 13/7 Therefore $Z = \frac{13}{7}$ is the optimal thereford value by the object and ballground pixels assuming that $p_1(z) = p_2(z)$ (3) @ (i) y = x-2 given thès line lets find a porpendicular destance from origin et the given line y = (1)x + (12)So here m=1 and c=-2, any line I' to this line will have me such that m, m, =-1 $(1) \cdot m_2 = -1$ y = -x + k, but k = 0 as the line passes through origin. Solve () & (2) y = x = 2 y = -x +0 = 2x - 2 x = 1So (1, -1) is the part where 1^x meets

the line y = x - 2



Solving (12(2)
$$x = 2/5$$
 $y = 4/5$
 $d = \int (3/5)^2 + (4/5)^2 = 2/5$
 $\beta = +\cos^4(-4/5) = +\cos^4(-6) \approx 63.41^2$
 $\therefore 92 = \frac{2}{\sqrt{5} \log(6 - 63.41)}$
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(as $\cos + \frac{4}{\sqrt{5} \log(6 - 63.41)} = \frac{1}{\sqrt{5} \log(6 - 63.41)}$

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 $J = (\sqrt{n^2 + y^2}) \sin(\theta - (\sqrt{-90}))$ Compare to stendard form of Sindsordal
wave $y = A \sin(8x - c)$ Here it follows a sinosoidal function. Thus here Amplitude = A = Jx2+y2 Perred = 27 = 27 phase angle = (x -90) point (x,y) are directly related. They
are directly proportional -) Here period of the sinosoidal ? a a Constant = 2th and doesn't change with (x,y) These angle is directly affected by a ine the angle suspended by (x,y) at original or