1 Pre-lab2

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- Given two points (x 1 , y 1) and (x 2 , y 2), compute the line parameters (a, b, c).

$a = y_1 - y_2$

$b = x_2 - x_1$

$c = \left(\frac{y_2 - y_1}{x_2 - x_1} * x_2 - y_2 \right) * \left(x_2 - x_1 \right)$

- Given a line (a, b, c) and a point (x, y) compute the distance from the point to the line.

$dist = \frac{ax + by + c}{\sqrt{a^2 + b^2}}$