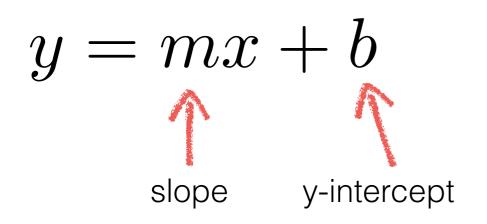


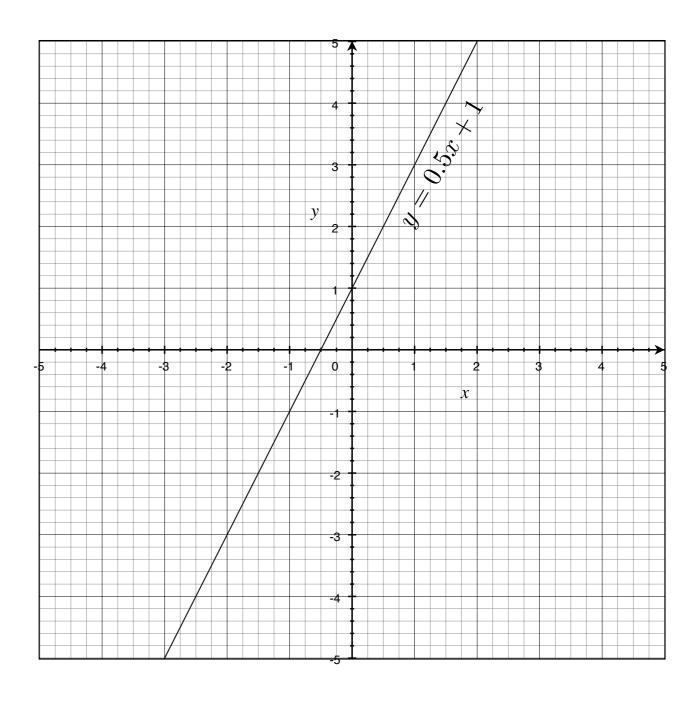
### Lines Parameterization

Computer Vision

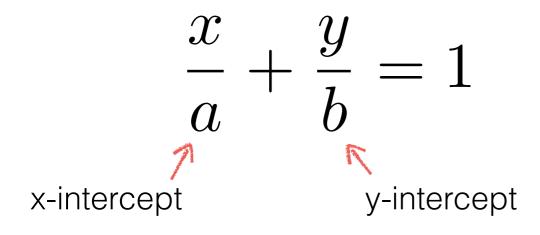
Carnegie Mellon University (Kris Kitani)

# Slope intercept form



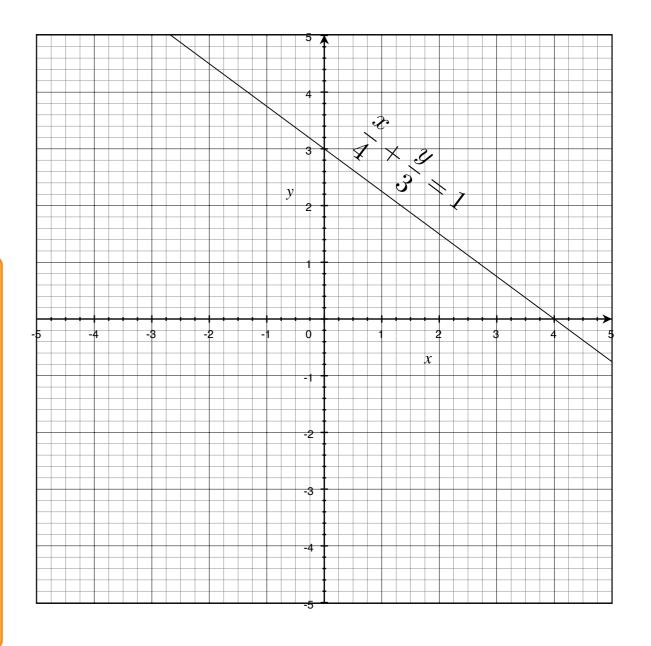


# Double intercept form



#### Derivation:

(Similar slope)  $\frac{y-b}{x-0} = \frac{0-y}{a-x}$  ya + yx - ba + bx = -yx ya + bx = ba  $\frac{y}{b} + \frac{x}{a} = 1$ 



### Normal Form

$$x\cos\theta + y\sin\theta = \rho$$

#### Derivation:

