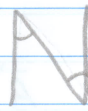
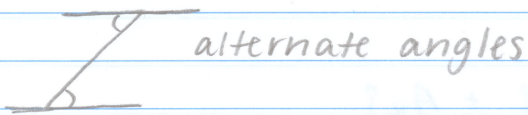


COURSE:	Phys 161 - 0203
PROFESSOR:	Giri
OFFICE #:	
OFFICE HOURS:	
E-MAIL:	

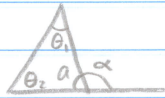
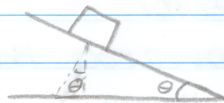
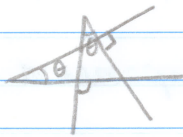
IMPORTANT CLASS INFORMATION

Lecture 1

9/2/10



Two sets of mutual perpendicular lines have the same angles



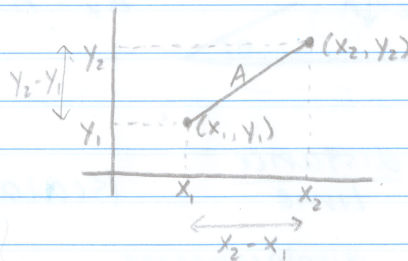
$$180 = \theta_1 + \theta_2 + \theta_3$$

$$a + \alpha = 180$$

$$a + (\theta_1 + \theta_2) = 180$$

$$\alpha = \theta_1 + \theta_2$$

$\Delta = \text{final} - \text{initial}$



$$A^2 = (x_2 - x_1)^2 + (y_2 - y_1)^2$$

sin is positive S	A all is positive
tan is positive T	C cos is positive

SOH CAH TOA

$$\frac{A_y}{A} = \sin \theta \quad A_y = A \sin \theta$$

$$\frac{A_x}{A} = \cos \theta \quad A_x = A \cos \theta$$

$$\sin(90 - \theta) = \cos \theta$$

$$\cos(90 - \theta) = \sin \theta$$