

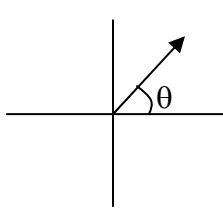
RESOLUTION OF FORCES

Name: _____ Date: _____ Section: _____

Partner (s): _____

Don't forget to indicate units for all values

Part A: Calculation of a third force that produces an equilibrium condition.



Angle

Mass

$\theta_1 =$ _____

$m_1 =$ _____

$\theta_2 =$ _____

$m_2 =$ _____

$F_1 =$ _____

$F_2 =$ _____

$F_{1x} =$ _____

$F_{2x} =$ _____

$F_{1y} =$ _____

$F_{2y} =$ _____

$F_{3x} =$ _____ ; $F_{3y} =$ _____

$F_3 =$ _____ , $\theta_3 =$ _____

$m_3 =$ _____

Part B: Verification of equilibrium

Scaled magnitudes: $a =$ _____ $b =$ _____ $c =$ _____

Measured length of the error vector: _____

$\Delta m_3 =$ _____