

Analytical Solution				<i>cos</i>	<i>Sin</i>
Force	Mass (kg)	Force (N)	Direction	x-component	y-component
F_1	0.100		20.0°		
F_2	0.200		90.0°		
Resultant F_{R1}					

PART 1. ERROR CALCULATIONS

Percent Error magnitude Experimental compared to Analytical = _____%

Percent Error magnitude Graphical compared to Analytical = _____%

Absolute Error in angle Experimental compared to Analytical = _____degrees

Absolute Error in angle Graphical compared to Analytical = _____degrees

Calculations Table 2

Graphical Solution			
Force	Mass (kg)	Force (N)	Direction
F_3	0.150		30.0°
F_4	0.200		100.0°
F_5	0.100		145.0°
Resultant F_{R2}			

Analytical Solution					
Force	Mass (kg)	Force (N)	Direction	x-component	y-component
F_3	0.150		30.0°		
F_4	0.200		100.0°		
F_5	0.100		145.0°		
Resultant F_{R2}					