SUMMARY SHEET

EXPERIMENT 1

1. FOR WATER AND RED LIGHT AT EXTREME END OF SPECTRUM

k = 1	First Order Rainbow	θ_1 =129.0°	ϕ_1 = 137.0 ±5.0°
k = 2	Second Order Rainbow	θ_2= 129.0°	ϕ_2 = 231.0 ±3.0°
k = 5	Fifth Order Rainbow	θ_5= 126.0°	ϕ_5 = 486.0 ±4.0°

2. LIQUIDS A AND B USING SECOND ORDER RAINBOWS

For Liquid A	θ_2 = 105.0°	ϕ_2= 255.0 ±3.0°
For Liquid B	θ_2 = 89.5°	ϕ_2= 270.5 ±3.0°
For n = 1	θ_2 = 0.0..°	ϕ_2= 0.0..°
Gradient of graph		= 0.84 ±0.07
Extrapolated, n =2,	θ_2, value of ϕ	= 304 ±25°

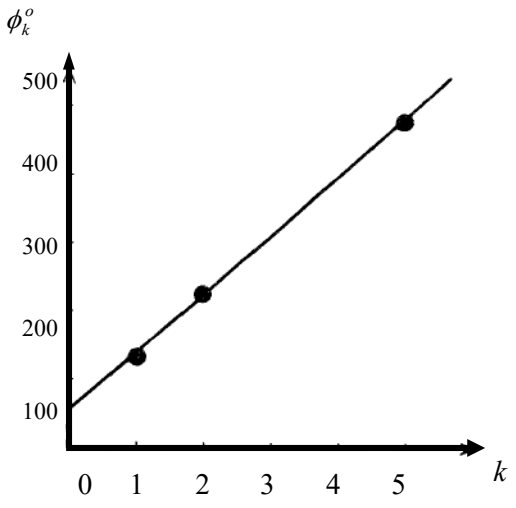


Figure E 1.1.

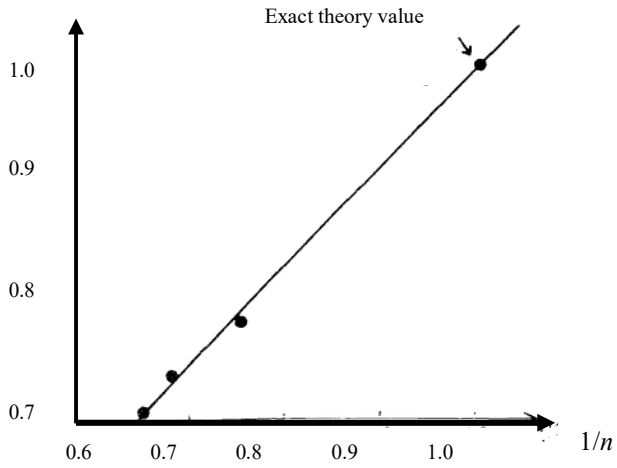


Figure E 1.2