

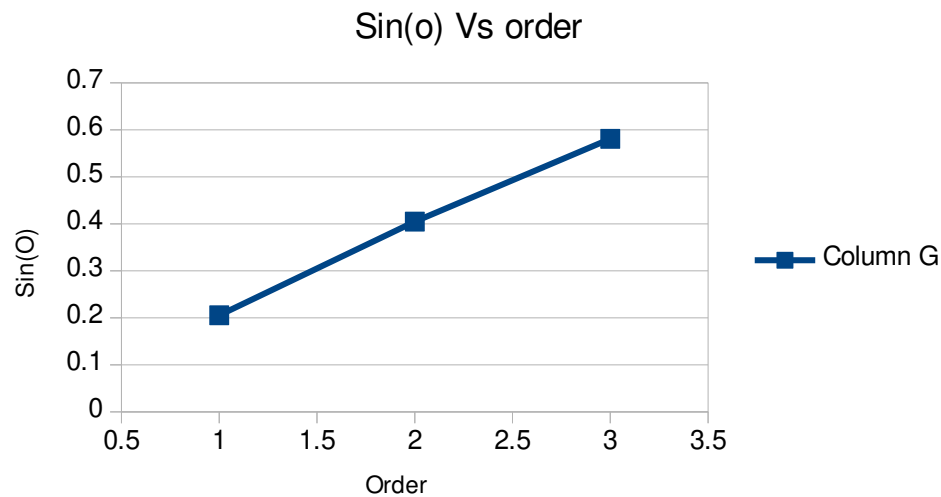
position of grating(in mm)= 609  
position of screen(in mm)= 478

sl no	Order of diffraction	D	Left (in mm)	Right (in mm)	d	sin( $\theta$ )
1	1	-131	28	27	27.5	0.205445682
2	2	-131	57	59	58	0.404842791
3	3	-131	94	93	93.5	0.580944283

slope of the curve= 0.187749300742274

lines per mm= 300

**Lamda =slope/N** 0.000625831002474 625.83100247425



position of grating(in mm)= 558  
position of screen(in mm)= 415

sl no	Order of diffraction	D	Left (in mm)	Right (in mm)	d	sin( $\theta$ )
1	1	-143	40	40	40	0.26938012
2	2	-143	82	82	82	0.497444986
3	3	-143	130	130	130	0.672672794
4	4	-143	230	230	230	0.849240578

slope of the curve= 0.191480918149482

lines per mm= 300

**Lamda =slope/N** 0.000638269727165 638.26972716494

