

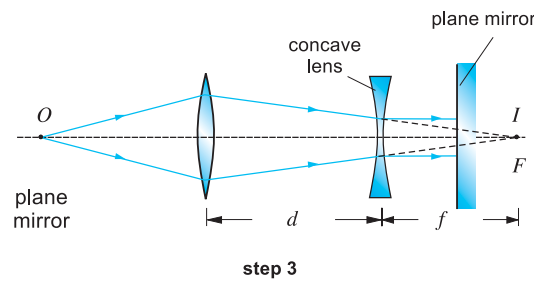
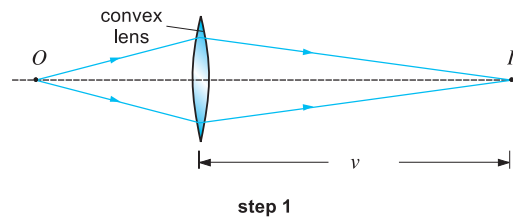
School				Mark (10)
Name		HKID		
Class (No.)		Date		

C11 The Focal Length of a Concave Lens

Answers to Preview Questions

1. _____
2. _____
3. _____
4. _____

Experiment 1 Measuring the focal length using the reversibility of light



Experiment 1

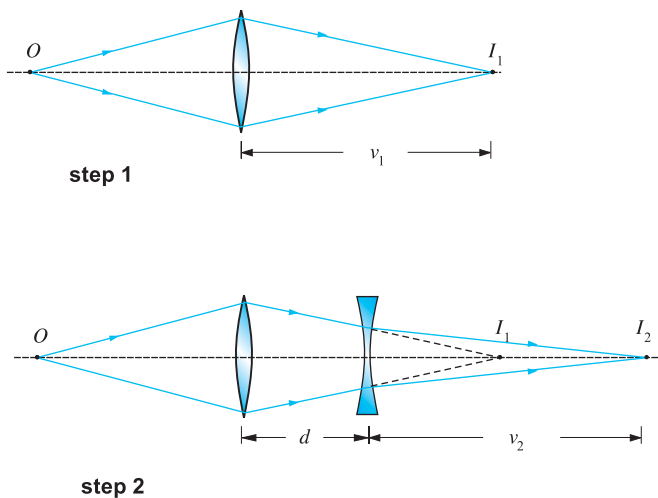
Table 1

Trial	1	2	3	4	5	6
v ()						
d ()						
$f = v - d$ ()						

Experiment 1 Step 6

Mean value of f _____

Experiment 2 Graphical method using an illuminated object



Experiment 2

Experiment 2 Step 1

Image distance formed by the convex lens alone, v_1 _____

Table 2

d ()						
v_2 ()						
$1/(v_1 - d)$ ()						
$1/v_2$ ()						

Teacher's Remark



Plot of $1/(v_1 - d)$ against $1/v_2$

Experiment 2 Step 6

Intercept on the vertical axis _____

Focal length of the concave lens, f _____

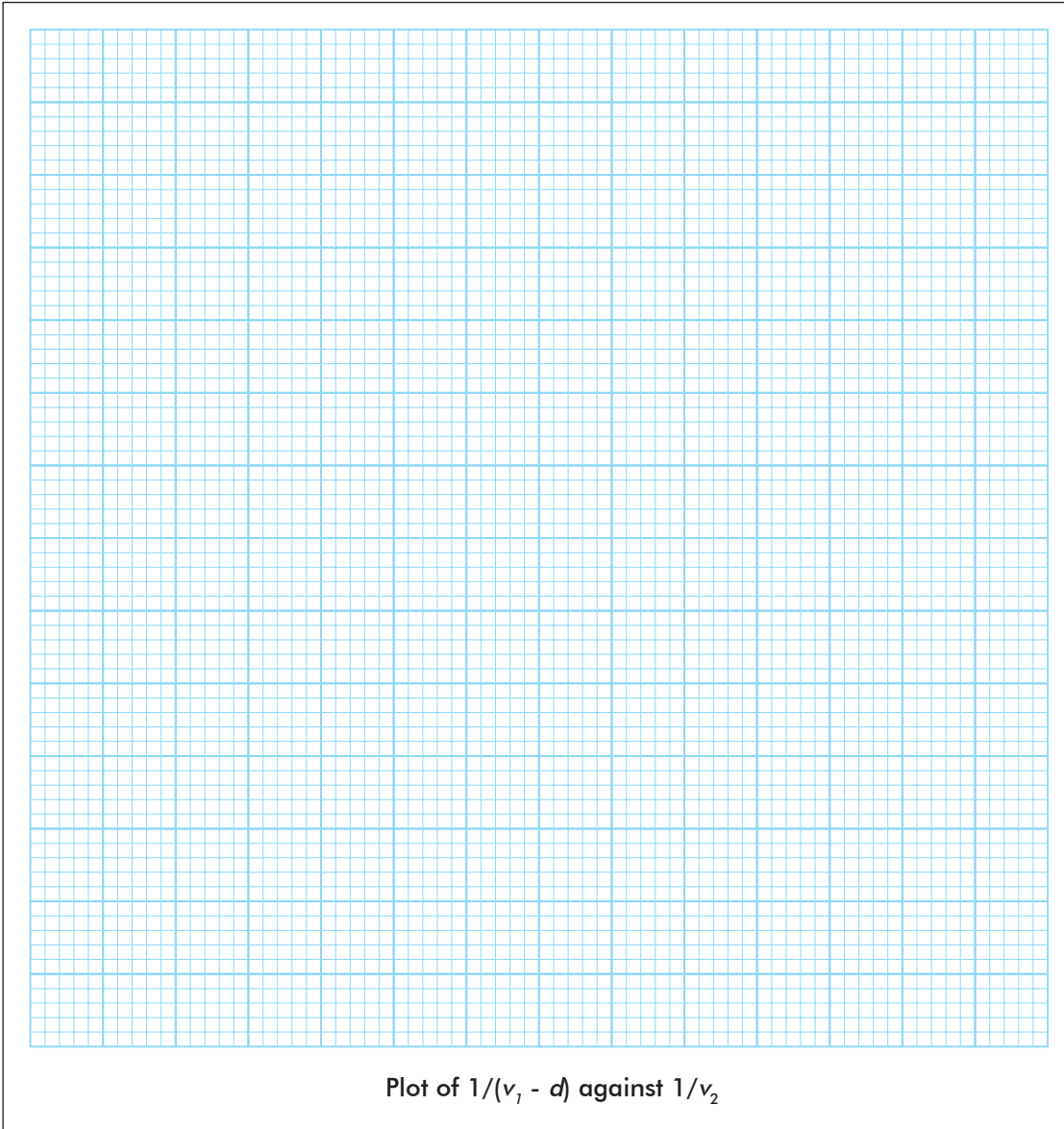
Answers to Discussion

1. _____

2. _____

3. Image distance formed by the concave mirror alone, v_1 _____

d ()						
v_2 ()						
$1/(v_1 - d)$ ()						
$1/v_2$ ()						



Intercept on the vertical axis _____

Focal length of the concave lens, f _____
