

MINISTRY OF EDUCATION, HERITAGE & ARTS

WORKSHEET 2 YEAR 12 2021

TECHNICAL DRAWING

STRAND 1: GEOMETRY

INSTRUCTIONS:

1. Use your exercise book to do the two questions given below.
2. All measurements are in millimeters.
3. Show all construction lines clearly.

NAME:

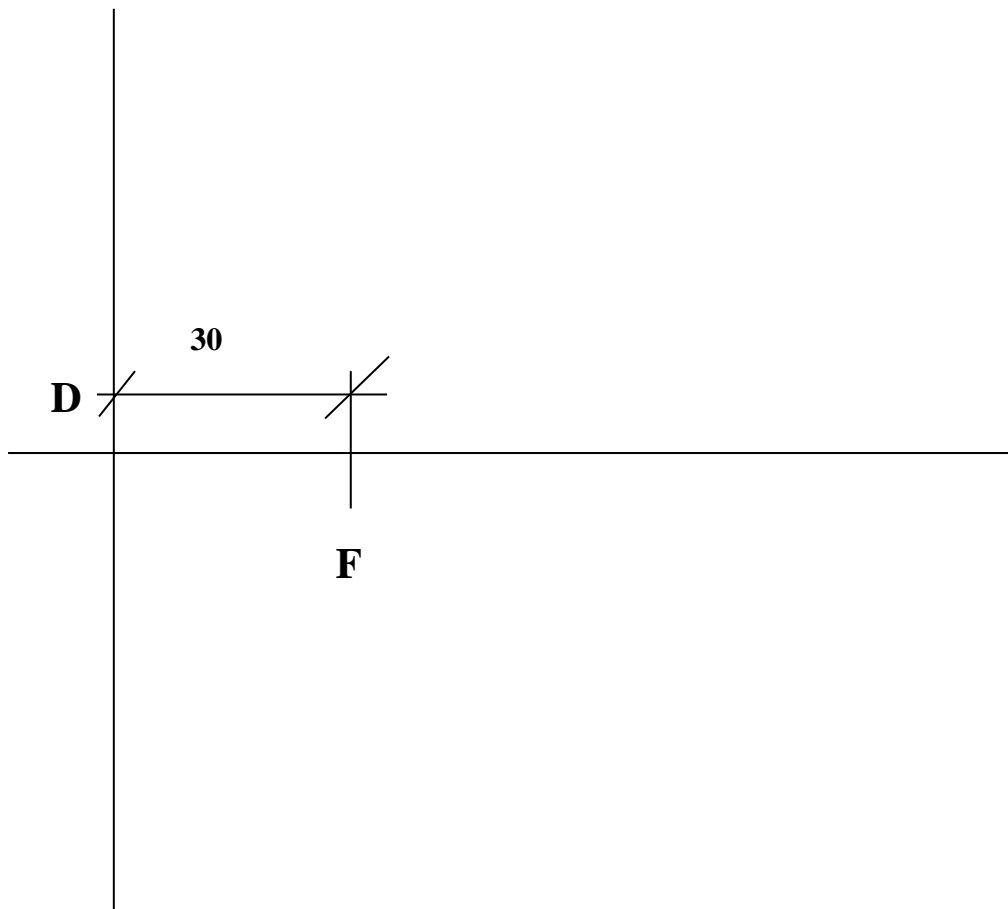
SECTION B

QUESTION 1

PART A

Given: The directrix, focus and the axis line.

- Required:**
- (i) Find the vertex.
 - (ii) Draw the elliptical curve using the ratio 2:3



(20 marks)

(10 marks)

(5marks)

(5 marks)

BQ1B			
1	Correct division of circle R	2	
2	Correct labels shown	2	
3	Correct generating lines or method	2	
4	Accuracy of C ₁ to C ₉ locations	2	
5	Correct shape of locus	1	
6	Correct name of the curve	1	
BQ1A			
7	Correct method	3	
8	Correct location of V	2	
9	Correct division	2	
10	Correct labels	2	
11	Accuracy	1	

PART B

(10 marks)

Given: The circle R, point P and the base arc LM.

Required : (i) Plot the locus of point P as the circle rolls $\frac{3}{4}$ revolution anti-clockwise direction.

(ii) Name the curve _____

