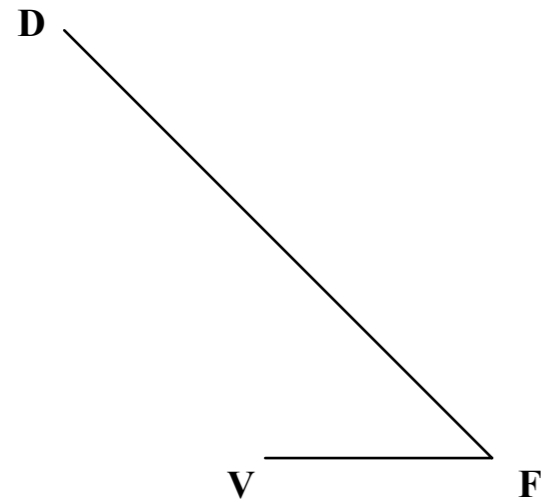


When a pencil that has a hexagonal cross section is sharpened, a **hyperbola** is formed. This results from the intersection of the conical point of the pencil by one of its flat sides.

Two lines VF and FD are shown in the drawing below. V is the **vertex** of a **hyperbola**, F is a **focal point** of the curve and D is a point on the **directrix**.

Locate the **directrix** and **eccentricity line** and draw a portion of the curve.



**Key Principles:**

If a right circular cone is intersected by a plane parallel to its axis, part of a **hyperbola** is formed.



	DESIGN & COMMUNICATION GRAPHICS		
	TITLE: <b>CONIC SECTIONS 4</b>		
DRAWN BY:	SIZE A3	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm	
SCALE: 1:1	DATE: 26/01/2009	SHEET 1 OF 1	