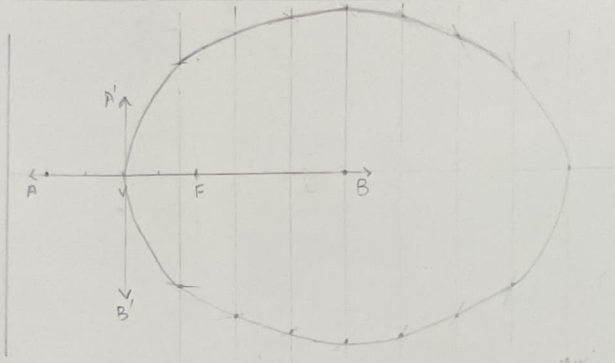
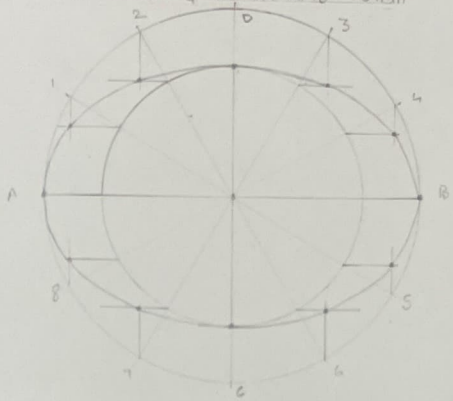
ENGINEERING CURVES

1. CONSTRUCT AN ELLIPSE WHEN THE DISTANCE OF THE FOCUS FROM DIRECTRIX IS EQUAL TO 50mm AND e = 2/3. ALSO DRAW TANGENT AND NORMAL TO ELLIPSE AT ANY PT.

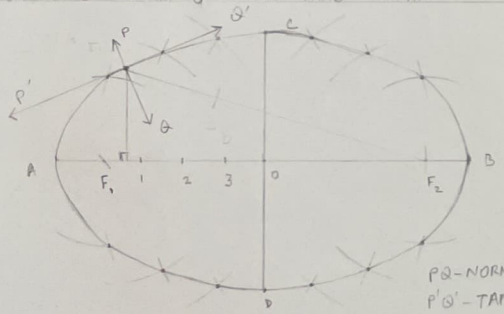


AB - NORMAL
A'B' - TANGENT

2. DRAW AN ELLIPSE BY CONCENTRIC CIRCLES METHOD. MAJOR AXIS 100mm & MINOR AXIS 70mm

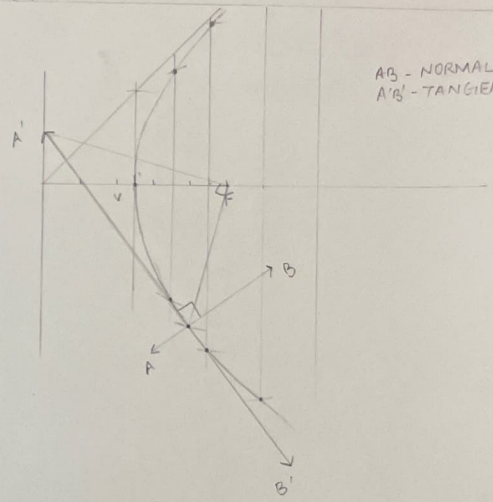


3. DRAW AN ELLIPSE BY ARCS OF CIRCLE METHOD. MAJOR AXIS 110 mm & MINOR AXIS 70mm.



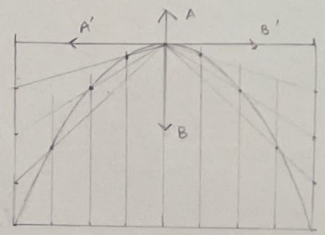
PQ - NORMAL
P'Q' - TANGENT

4. CONSTRUCT A PARABOLA WHERE FOCUS IS 50mm FROM DIRECTRIX.



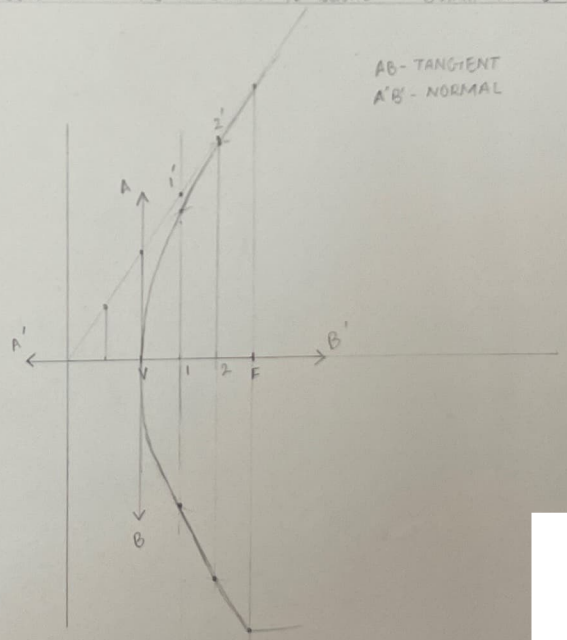
AB - NORMAL
A'B' - TANGENT

5. DRAW A PARABOLA HAVING LENGTH 80mm AND AXIS HEIGHT 50mm BY RECTANGLE METHOD.



AB - NORMAL
A'B' - TANGENT

6. CONSTRUCT A HYPERBOLA WHEN THE DISTANCE OF THE FOCUS FROM THE DIRECTRIX IS EQUAL TO 50mm AND e = 3/2



AB - TANGENT
A'B' - NORMAL

7. A PT. P IS 20mm & 30mm RESPECTIVELY FROM TWO STRAIGHT LINES WHICH ARE AT 90°. DRAW A RECTANGULAR HYPERBOLA FROM P WITHIN 6mm DISTANCE FROM EACH LINE.