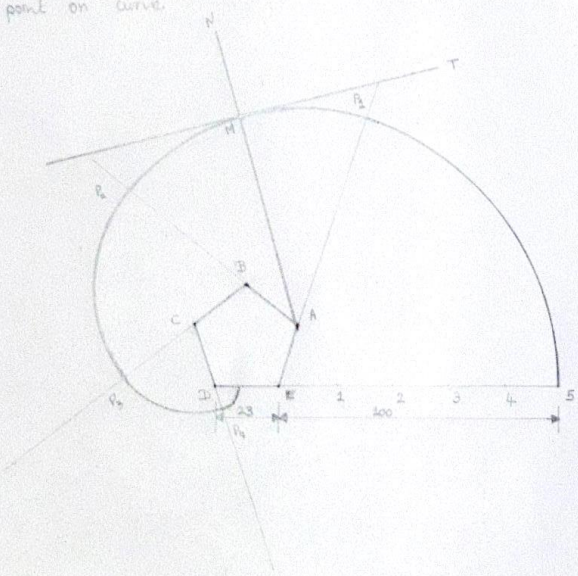
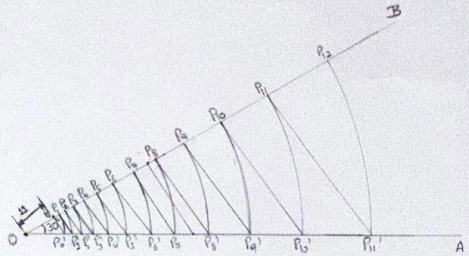
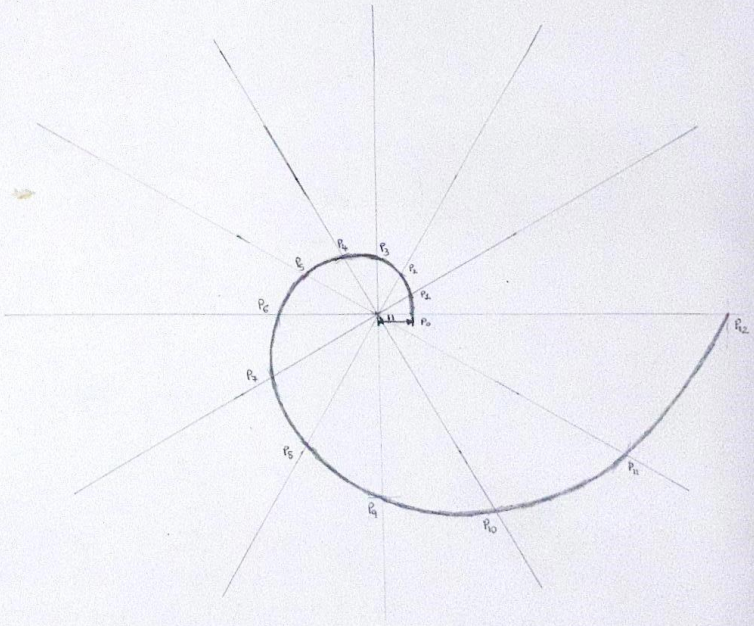
1. A circle, of 50mm diameter, rolls along the circumference of another circle of 150mm diameter inside. Draw P on the circumference of rolling circle for 1 complete revolution. Draw Normal & tangent to curve.


2. An elastic string of length 100mm is wound a pentagon of 23mm sides. Draw the path by end of string. Also draw normal & tangent at any point on curve.




3. Construct logarithmic spiral for 1 revolution. Given the length of shortest radius vector to 11mm & ratio of the lengths of successive radius vectors equal to 6/5 for vectorial angle of 30°.



| MBIT, NEW V.V. NAGAR | | Sign | Date |
|---|---|---|---|
| | Starting | | |
| Name: Hunaid Siamwala | Completed | | |
| Class: CE-1 EN No: 1200204081067 | Grade | | |
| Batch: D | Scale | 1:1 | |
| Year: 2021 | Sheet No. | 3 | |

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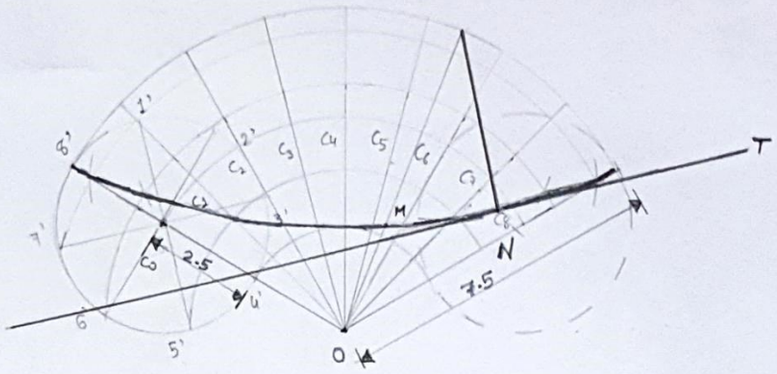


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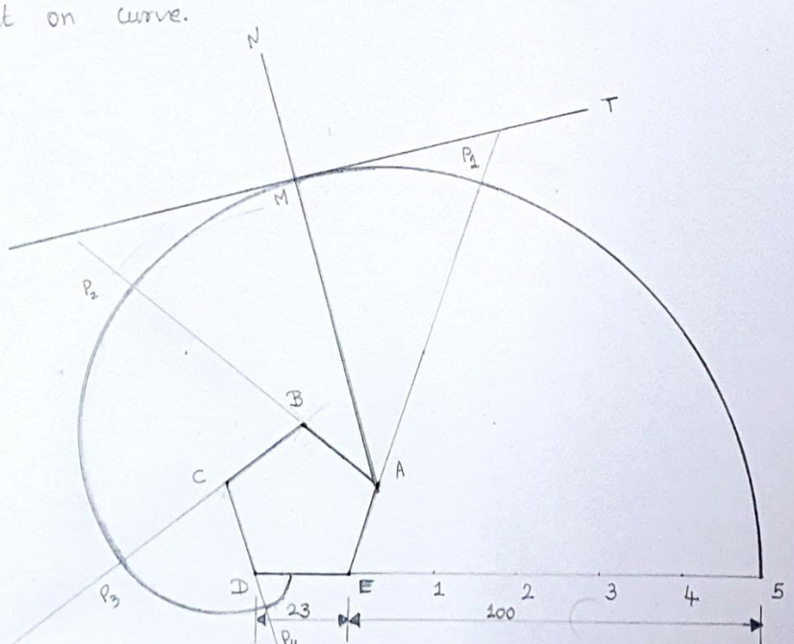

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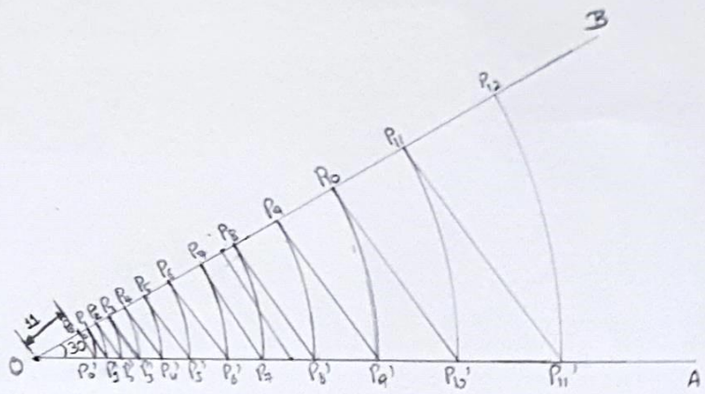


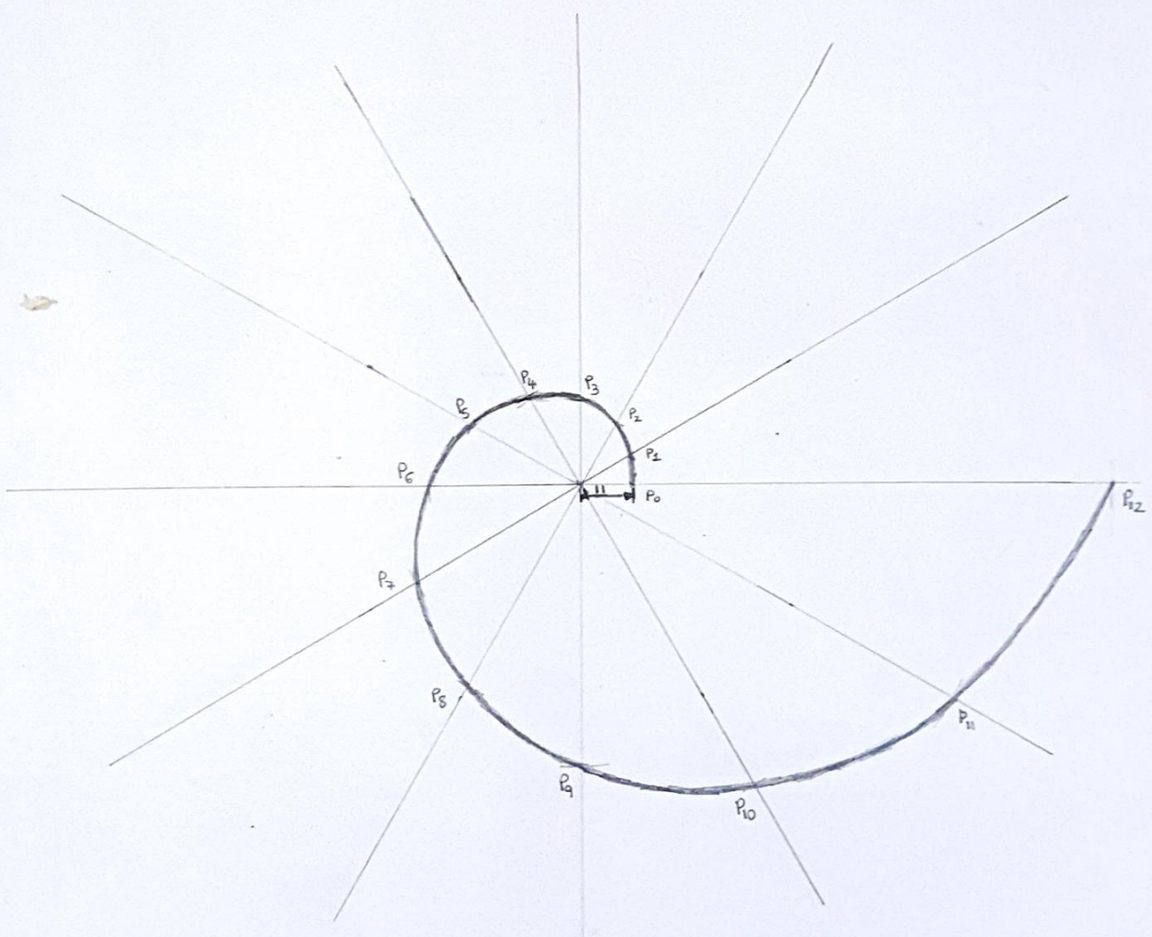


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| Batch: D | Scale | 1:1 | |
| Year: 2021 | Sheet No. | 3 | |