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Fig. 10.1 Two-circle construction for an ellipse. Divide the circles into any number of parts; the parts do not necessarily have to be equal. The radial lines now cross the inner and outer circles. Where the radial lines cross the outer circle, draw short lines parallel to the minor axis CD.

However, the latter has no meaning in mechanical engineering, which is why only the contracted cycloid is used. Figure: Construction of an ordinary cycloid and a contracted cycloid. The figure below shows the effect of such a contracted cycloid on the shape of the cycloidal disc. The contour of the cycloidal disc is "softer".

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Construction of a Cycloid. Step1: Draw the generating circle and the base line equal to the circumference of the generating circle. Step 2 : Divide the circle and the base line in to equal number of parts. also erect the perpendicular lines from the division of the line.

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3. For construction, select upper left part of rectangle. Divide vertical small side and horizontal long side into same number of equal parts.(here divided in four parts) 4. Name those as shown.. 5. Now join all vertical points 1,2,3,4, to the upper end of minor axis. And all horizontal points i.e.1,2,3,4 to the lower end of

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