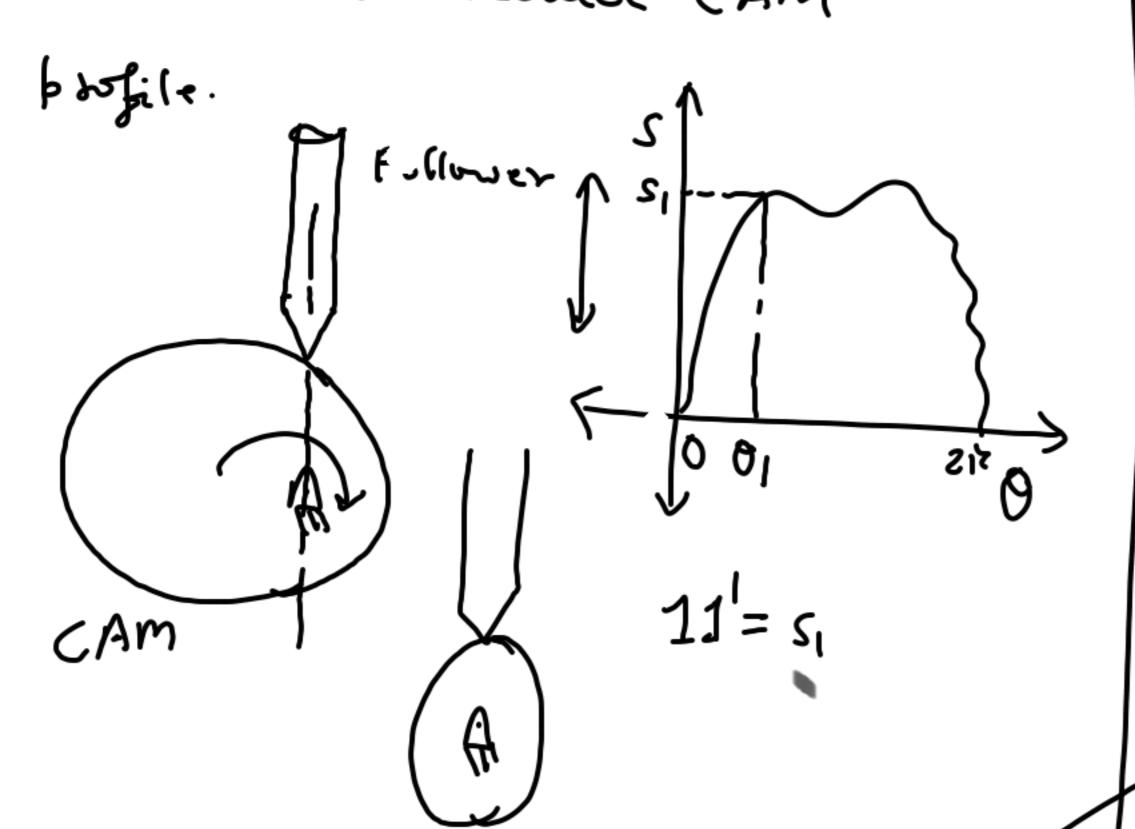
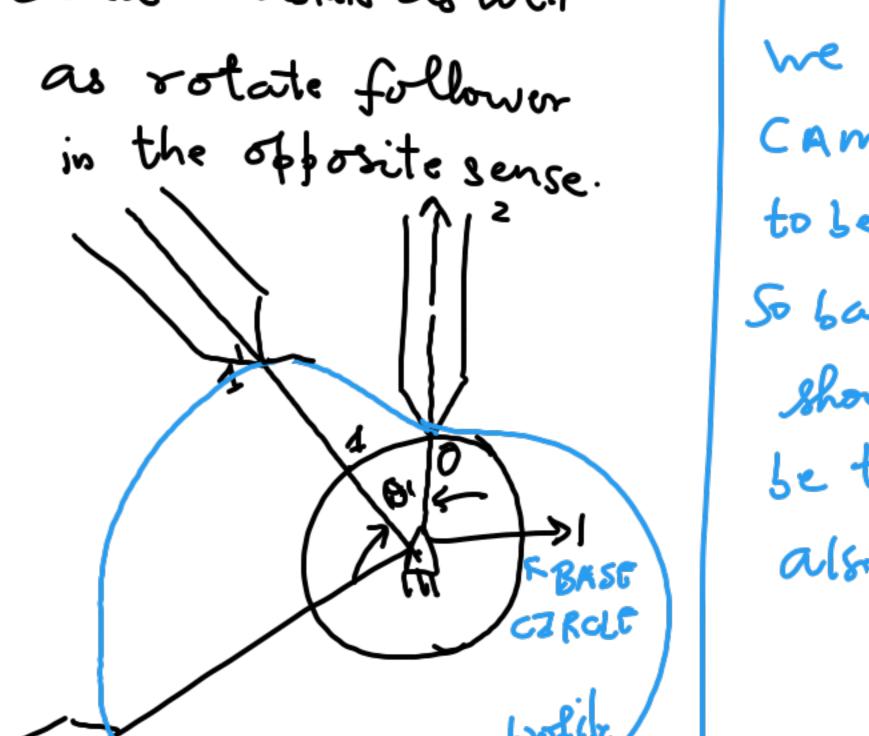
SAMLHESIS

Grien "motion" of follower, We want to deduce CAM



We use poinciple of inversion.

We fin CAM and translate as well as rotate follower



CAM size Scales hith base Circle radius

we need CAM profile to be convex. So base aride Shouldnt Le too small als

Follower # 2

Roller follower

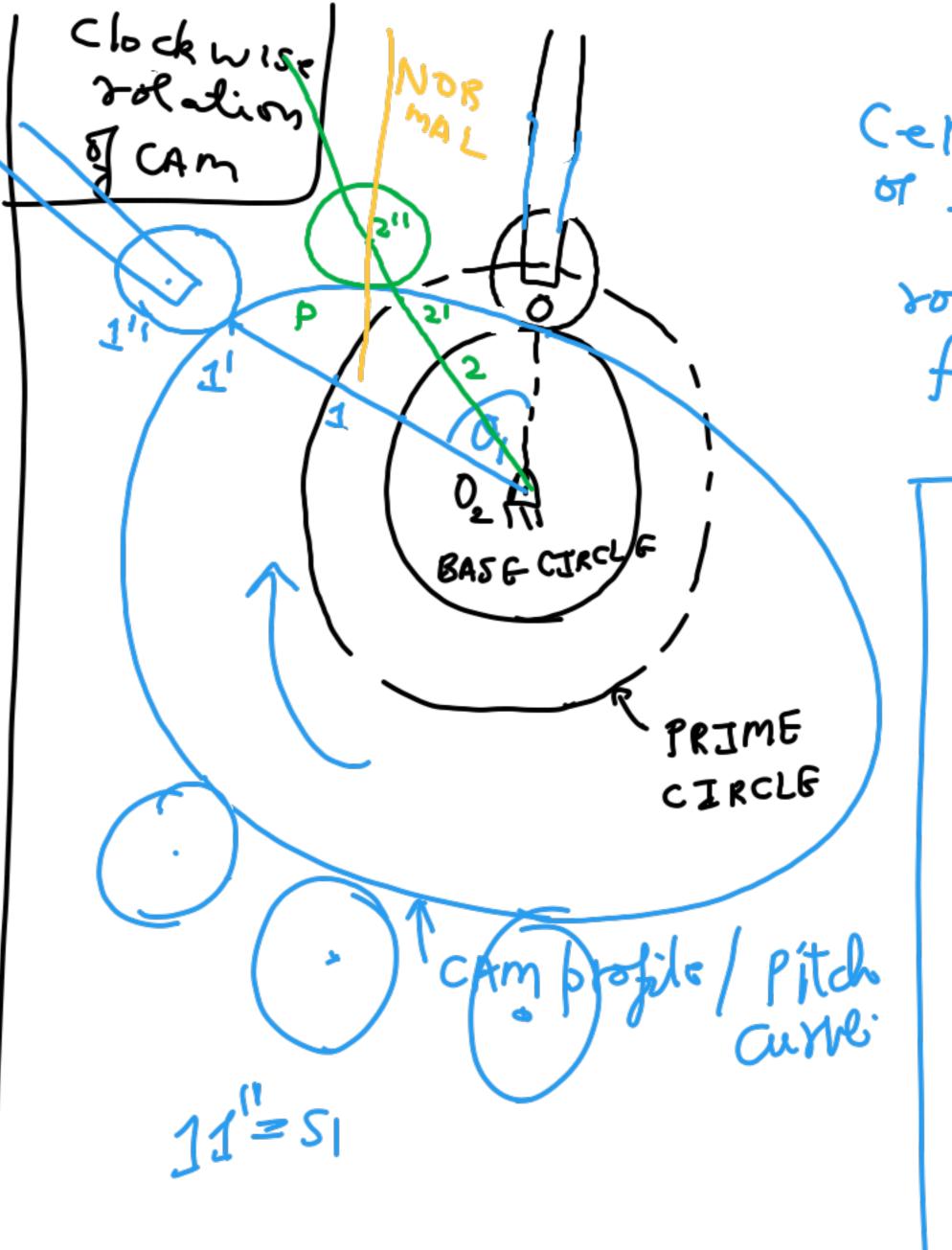
Trans (alting and radial

Crives: Displacement

profile of roller follower

To find i CAM surface;

We have to assume values for radius of roller and base girde.



Centhe of the rollen follower

> CAM profile is tangent to all the Circles (roller follower) identified through process inversion.

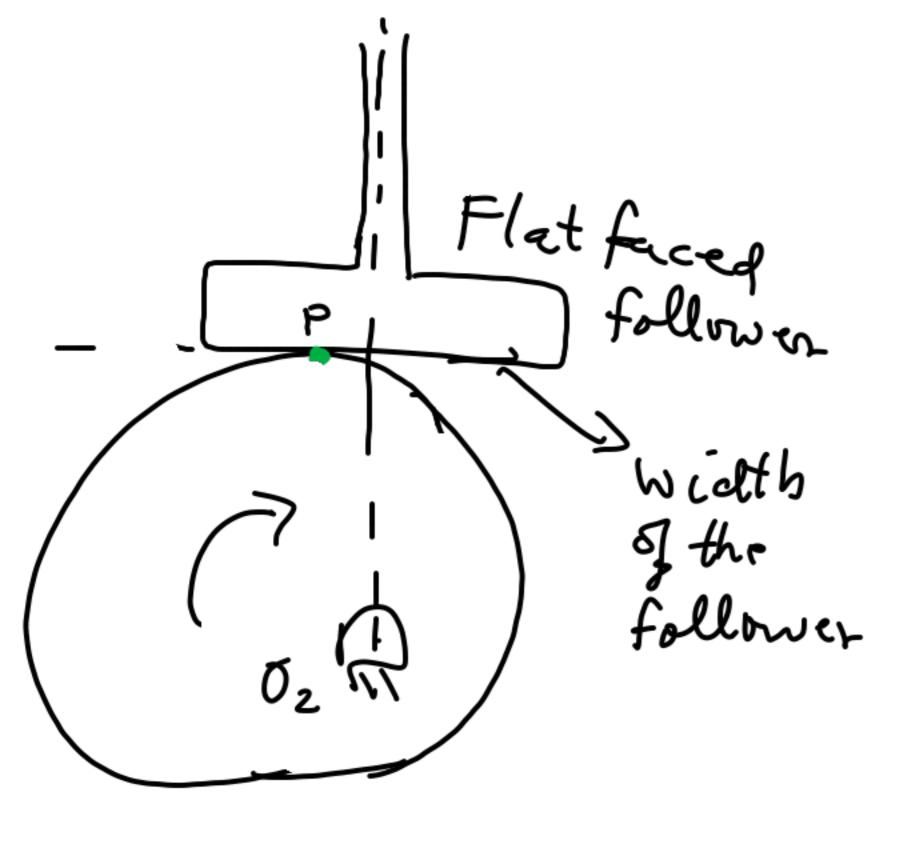
Theory of envelopes So we want to find a curre Which envelops a family of given Circle.

at z Fussy z Fsinh

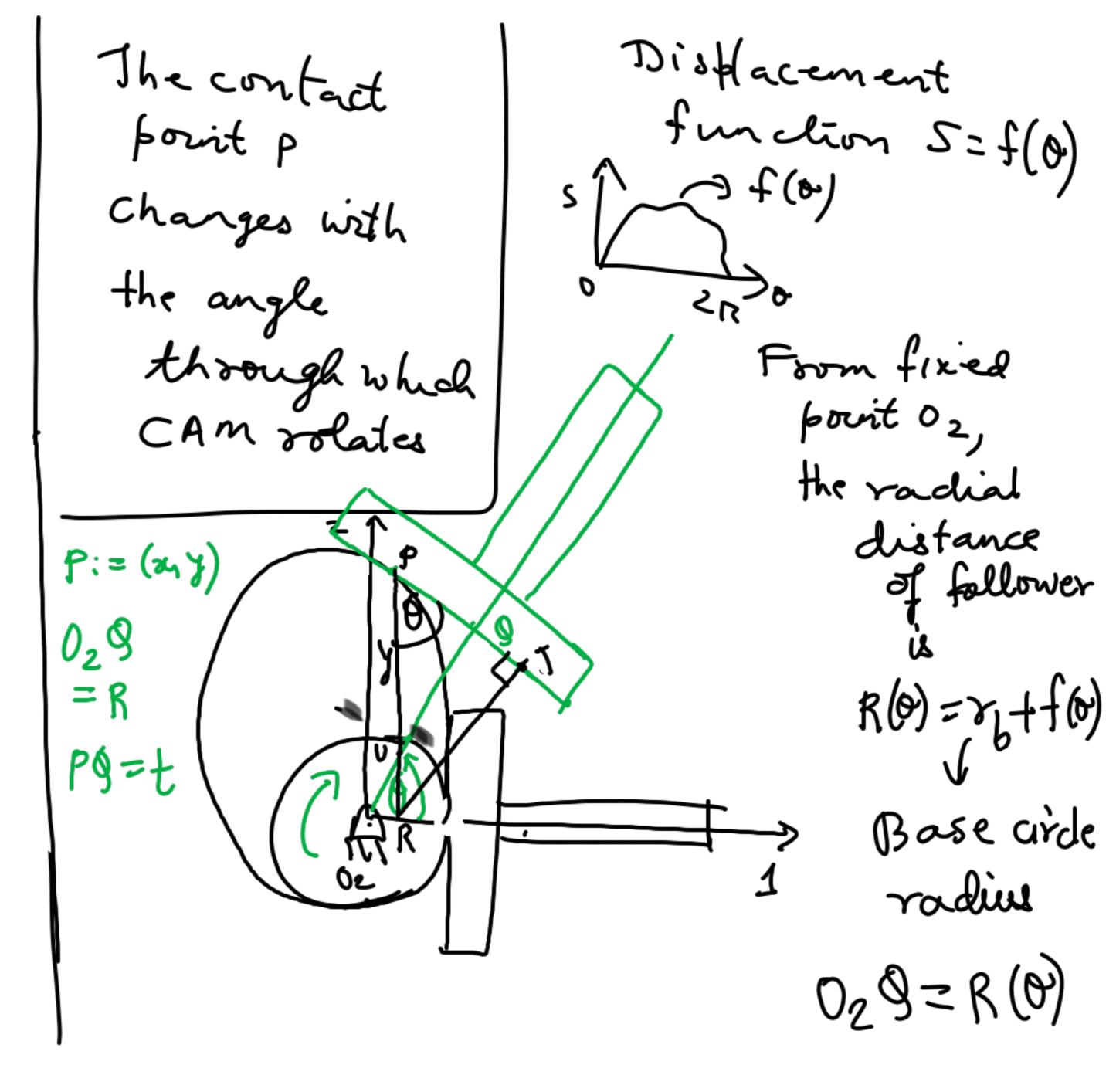
In general, the Common nomal at the point of Contact, neednot Cornaide with the follower axis. The corresponding angle is colled "pressure angle". Recommended 6 (20 to

measy the base Circle rading, hill pans down-the pressure angle.

Analytical approad Translating flat-faced follower



The flat line of the follower is the Common tangent at the point of contact.



$$PR = Y$$

$$O_{2}Q = O_{2}V$$

$$AVQ$$

$$AVQ$$

$$AVQ$$

$$= O_{2}V + RT$$

$$RT = PR SIND = (O_{2}R)COSD$$

$$+ (RP)SIND$$

$$PQ = PT - QT$$

$$= PT - VR = (PR)COSD - (O_{1}R)SIND$$