hength of action Z Base circle 1 for Gear 2 Pb= 03P Sind; Pa=(02P Sind) = rasmid = rapsind

on les section of common tangent with the æddendum circles leads to the length of action. Z= R9 = RP+P9 = (Rb-Pb) + (Qa-Pa) = (Rb+9a)-(Pb+Pa)

Consider JOSER (FG + ag) - (eg cos 6)

Same exercise

for
$$00_2$$
 ga

$$9a = \sqrt{(r_p + a_p)^2}$$

$$- (r_p \cos \phi)^2$$

$$(Pb + Pa) = r_a \cos \phi \sin(phi)$$

$$+ r_p \cos \phi \sin(phi)$$

$$= (r_a + r_p) \cos \phi \sin(phi)$$

$$7 = \sqrt{(r_b + a_a)^2 - r_a^2 \cos^2 \phi} + \sqrt{(r_p + a_p)^2 - r_p \cos^2 \phi}$$

$$- (r_a + r_p) \cos \phi \sin(phi)$$