(1-3sin^2 x) / sin^2 x=5ctg x

1/ sin^2 x - 3=5ctg x

1+ctg^2 x=1/sin^2 x

1+ctg^2 x - 3=5ctg x

ctgx=t

1+t^2-3=5t

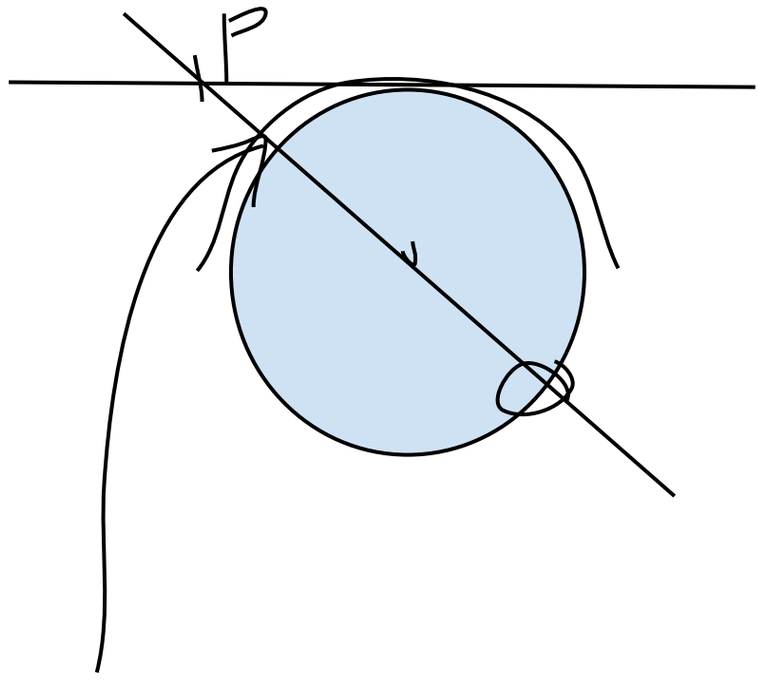
t^2-5t-2=0

D=25+8=33

t1,2=(5+-V33) / 2

ctgx=(5+-V33) / 2

x=arcctg((5+-V33) / 2) +Pk



arcctg(p)