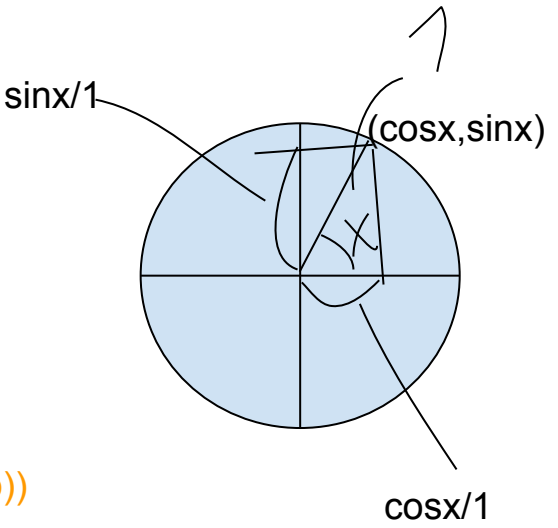
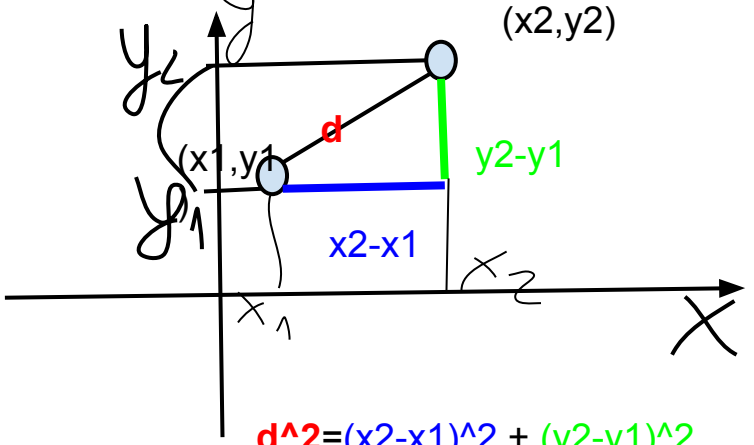
1-ая основная формула
Sin^2 x + Cos^2 x=1

2-ая основная формула
(любая из 4-х)
sin(x+y)=sinx*cosy+siny*cosx
sin(x-y)=sinx*cosy-siny*cosx
cos(x+y)=cosx*cosy-siny*sinx
cos(x-y)=cosx*cosy+siny*sinx

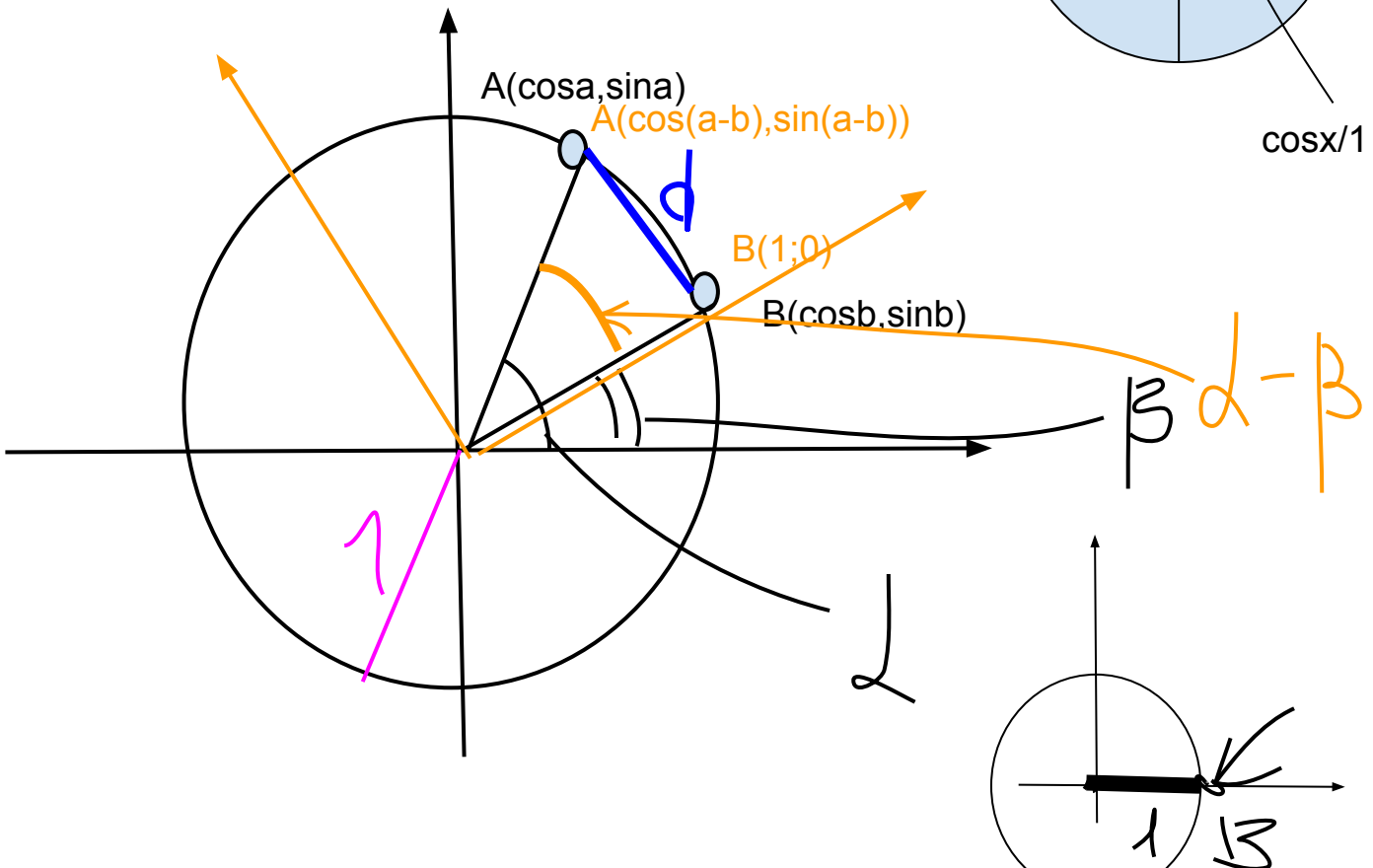
(a-b)^2=(-1*(b-a))^2=(-1)^2*(b-a)^2=(b-a)^2





d^2=(x2-x1)^2 + (y2-y1)^2
d=V[(x2-x1)^2 + (y2-y1)^2]

не по человечески



d^2=(cosa-cosb)^2+(sina-sinb)^2=cos^2 a - 2cosa*cosb+cos^2 b+sin^2 a - 2sina*sinb+ +sin^2 b=2-2(cosa*cosb+sina*sinb)

d^2=(cos(a-b)-1)^2+(sin(a-b))^2=cos^2 (a-b)- -2cos(a-b)+1+sin^2 (a-b)=2-2cos(a-b)

2-2(cosa*cosb+sina*sinb)=2-2cos(a-b)

2-2(cosa*cosb+sina*sinb)=2-2cos(a-b)
cos(a-b)=cosa*cosb+sina*sinb