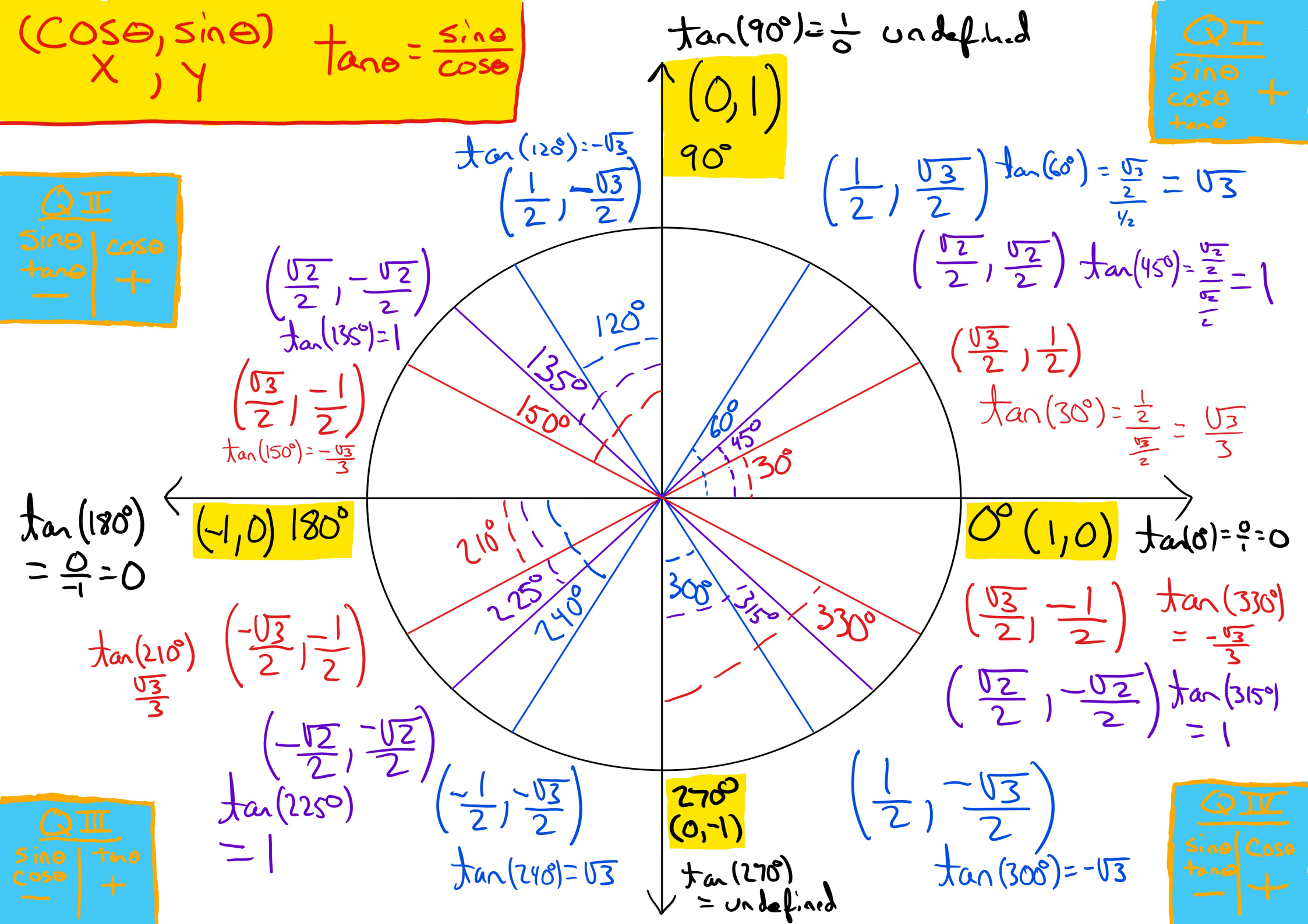
(cosθ, sinθ)
x , y
tanθ = sinθ / cosθ
tan(90°) = 1/0 undefined
QI
sinθ
cosθ
tanθ
+
(0,1)
90°
tan(120) = -√3
(1/2, -√3/2)
(1/2, √3/2) tan(60) = (√3/2)/(1/2) = √3
(√2/2, √2/2) tan(45°) = (√2/2)/(√2/2) = 1
(√3/2, 1/2)
tan(30°) = (1/2)/(√3/2) = √3/3
QII
sinθ
tanθ
—
cosθ
+
(√2/2, -√2/2)
tan(135°) = 1
(√3/2, -1/2)
tan(150°) = -√3/3
120°
135°
150°
60°
45°
30°
tan(180) = 0/-1 = 0
(-1,0) 180°
0° (1,0)
tan(0) = 0/1 = 0
210°
225°
240°
300°
315°
330°
tan(210) √3/3
(-√3/2, -1/2)
(√3/2, -1/2) tan(330) = -√3/3
(√2/2, -√2/2) tan(315) = 1
(-√2/2, -√2/2)
tan(225) = 1
(-1/2, -√3/2)
tan(240) = √3
270°
(0,-1)
(1/2, -√3/2)
tan(300) = -√3
tan(270) = undefined
QIII
sinθ
cosθ
—
tanθ
+
QIV
sinθ
tanθ
—
cosθ
+