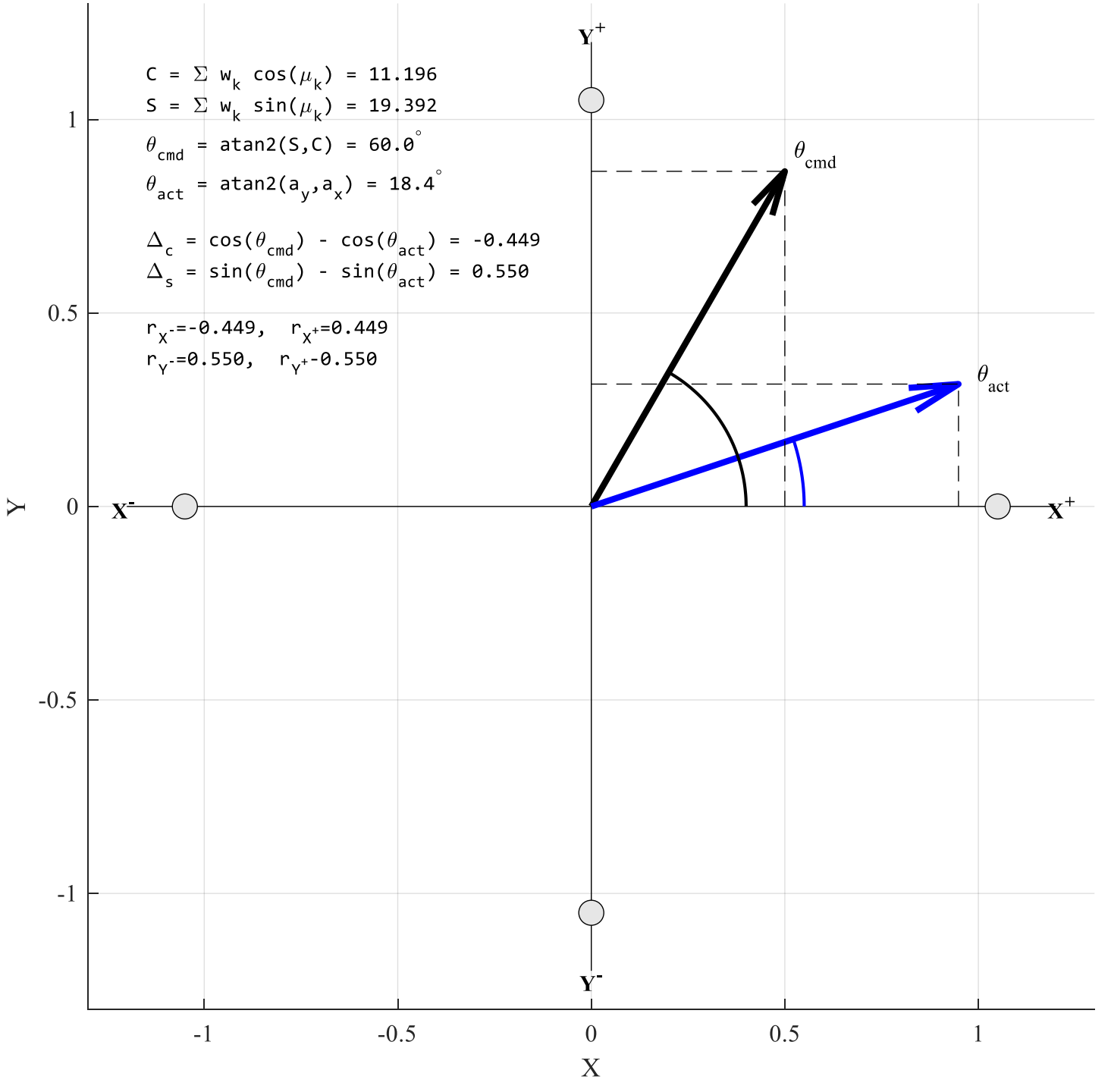
C = Σ w_k cos(μ_k) = 11.196
S = Σ w_k sin(μ_k) = 19.392
θ_cmd = atan2(S,C) = 60.0°
θ_act = atan2(a_y,a_x) = 18.4°
Δ_c = cos(θ_cmd) - cos(θ_act) = -0.449
Δ_s = sin(θ_cmd) - sin(θ_act) = 0.550
r_X⁻=-0.449, r_X⁺=0.449
r_Y⁻=0.550, r_Y⁺-0.550
Y⁺
Y⁻
X⁻
X⁺
θ_cmd
θ_act
1
0.5
0
-0.5
-1
Y
-1
-0.5
0
0.5
1
X