EXERCICE 1

1)

    a) A(0 ; 0)
       B(1 ; 0)
       C(1 ; 1)
       D(0 ; 1)
       E(0,5 ; √3/2)
       F((2+√3)/2 ; 0,5)

    b)

2) α = 180 - 120 = 60°
       β = 90 - 60 = 30°
       θ = (180 - 30) / 2 = 75°
       μ = 90 + 60 = 150°

       $\widehat{EDC}$ = 90 - 75 = 15°
       $\widehat{FDC}$ = 90 - 75 = 15°

EXERCICE 2

1.

    a) cos(x) ≥ 0
       x ≥ arccos(0)
       x ≥ π/2
    b) cos(x) ≥ − 1/2
       x ≥ arccos(-1/2)
       x ≥ -π/3

2.   cos²(x) + 1/2cos(x) ≥ 0