Question No 3

1 A farticle Starts at A(-2,3) and its Coordinates Change by increments Δx = 5, Δy = 6 - find its new Position. initial coordinates. A(-2,3) Change in x coordinate. (Δx = 5 Change in y coordinate. (Δx = 5 Change in y coordinate. Δy = 6

Solution new Position is Posticle Starts at A(6,0) and it Coordinates Change by increments $\Delta x = -6$, $\Delta y = 0$. Find the its new Position. Data: inital Coordinates = A(6,0): bange in x coordinate - Dx = ange in y Coordinate = Dy = 0 en Position Knew = 6 -6 = 0 4 new =0+0=0 the new fosition is 3 The Coordinate of Particle Change DX = 5 and Dy = 6 as it New Position= B(3,-3)

Change in x Coordinate = 1x = 5 Change in y Coordinate = 1 y = 6 Change in n Coordinate is 5 Change in y Coordinate is 6,5 1, X=3-5=-2 ; 4=-3-6=-9 Starting: Coordinates A are of Particle Started at A(1,0), circled the Orgin ocnie counterclockwise, and returned to A(1,0). What were the net Changes in it Coordinates? & Since he Particle return to its original Position, he net Changes in both Coordinates a Change in X Ax = 1-1 =0 Change in y 1y =0-0=0