Answer on Question #77027, Math / Calculus

We have the equation $r = 2\sin\theta - 4\cos\theta$. Hence $r^2 = 2r\sin\theta - 4r\cos\theta$ and $x^2 + y^2 = 2y - 4x$ or $(x+2)^2 + (y-1)^2 = 5$