NOW (x-1)b(x) = (x-1)x = x x^2-1 x+1

 $(x-1)^2 Q(x) = (x-1)^2 (-1) = -(x-1) = -(x-1)$

are analytic at 2=1 => x=1 is a regular singular pt

(4) ray + 4 Sinx =0