g cd. calculation with division algorithm 2 x= 9,-0 + (1 05 (c < 1y) J= 92-92-92 05 (2 < 9 0 × 13 × 12 H (= 93. (2 + G n. Cn-2 = 9n. Cn-1 + (n) N-1 (2-) = 9/41 + (2) If Value equal Ders, Stop the algorithm. numbers Let Ind to greatest Cerner duider with chiristen algorithm. And gcd (45,126)=3.45 + 1.126 to be condition 5" and "+" number's gcd(45,126) = 45.5 + 126.7 9=45.5+126.t 9=45-1-1.36 =45.1-1-(126-2.45)= 1.45+2.45 - 126.1 = 3. 45 -

Example Determine the integers "x" and "y" Provided

that 512x + 320 y = 64

gcd (x,y) = 65 7 512 x +320 y = 64 8x+5y=1

x= Xot5K

J= y0-8:k

k=0 -> x=

k=1 -> x=4

k==1 ->