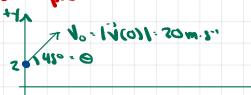
4.6 10 Hinematics and Integration 9+ 91(1) = c(1)  $\left[ \frac{4}{9} A(t) \right] 94 = \left[ a(t) 94 + A(t) + C \right]$ Alleinchisely 46(+)== a(+)6+ Jakn - Jachat - 4(1)+c "integral of the differential of Enction early trucken pur constant" Area of the Indefinite Integral of Accession

## Ex4.6 Initial Data CAR 1 c(1 s) = 0 = c(1) = { p(1-11) 1 c + e + s 1c,0 - 12 m.5-1 P = - @ M . 2-3 15(4) = \ 16'0 + P(1-1'), | 1' < 1 \ e 1' 0 \ e 1 \ e 1' Xc(+) = { 1c,0+ + Xc10 1 dc,0+ + b(+-+1)3/6 + Xc10 08+84 1,64645 insething initial date ac(t) = { 0 08+81 164642 1'(1). { 15 - 3(1-1), 0 5 + 51 164642 Xc(+) = { 12+ - (+-1)3 0 5 + 51 164642 61 BIKE Apio coustout should premise and ap(+) = 0 X\_(0) = - 17 =D 16(+) = 1/20 X p(+2) - Xc(+2) X6(4) - - 17+ Vb. ot 10-(12)-0 -17 + 316'0 - 3e - (5)3 same position at 1: +: =0 315,0 = 28+17 = 45 Xp(tz) - Xc(tz) -17+16,0 tz = 12+z-(+z-1)3 => 16,0 = 15 m. 5-1 chet is to? 4.(1,1.0.12-3(1,-2+,+1) 12 - 21, +1- 4 = 12 - 212 - 3 = 0 D = 4-4-1-(-3) = 16 12. 224 73

### 5.2 Rajectile Hation

### Example 5.1



# highest point of Kejedat c=> (1(1)-0

## meximum vettical displacement

### inserting Jalves