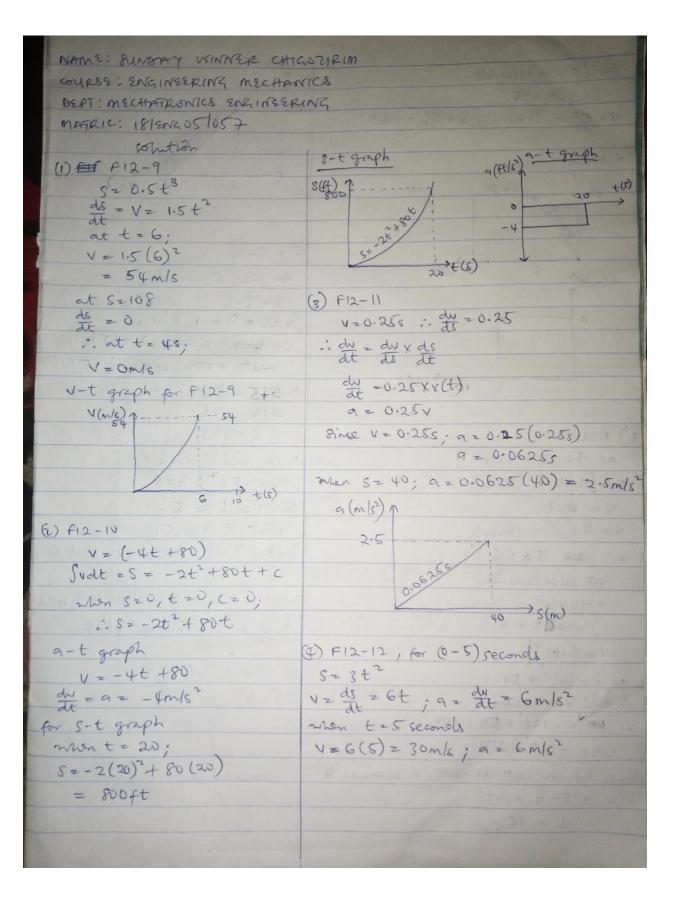
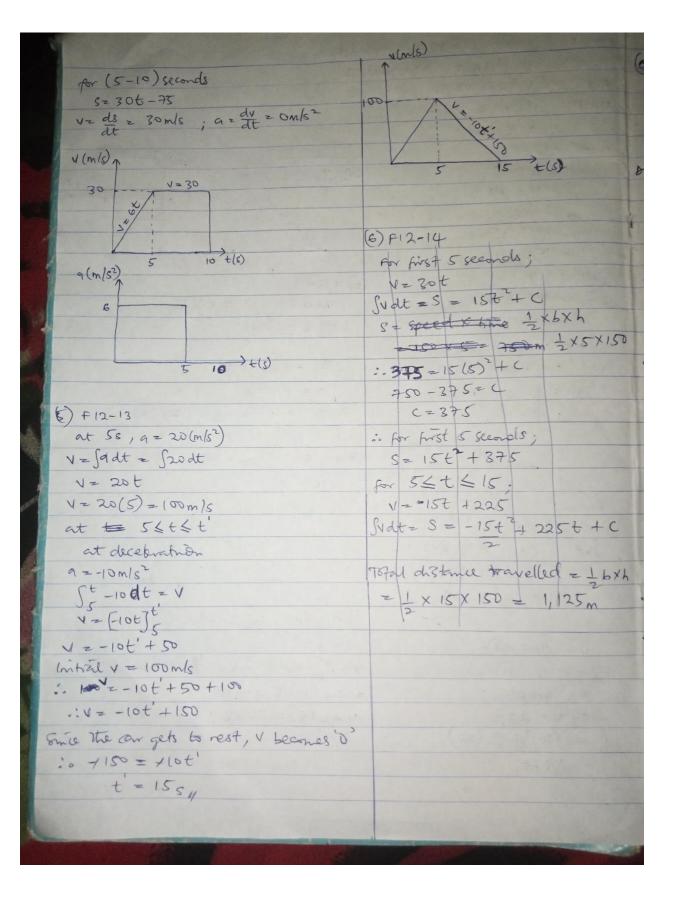
NAME: SUNDAY WINNER CHIGOZIRIM

COURSE: ENGINEERING MECHANICS

**DEPT: MECHATRONICS ENGINEERING** 

MATRIC: 18/ENG05/057





```
(6) F12-14
      for first I seconds;
   V=30t
Svdt=S= 15t2 + C
   Distance (6) = 1 x 5 x 150 = 375 m
    : 375= 15(5)2+0
     cz d
:. S= 15t2
   tor 55+615;
  Svdt = S = -15+2+225++C
   Total distance covered = 1xbxh
     = = x 12x 120
          8 = 1125 m
   1125-375= 750
        750 = \left(-15(15)^{2} + 225(15) + C\right) - \left(-15(5)^{2} + 225(5) + C\right)
        750 = -750 + 2250 +C
           ez -750
         = 750 = -15(15) +225(15) +15(5) -225(5) + L
×h
              750 = 187.5 + C 750 = 750 + C

C= 562.5 C=0
          S=-7.5t2+225
                                        1----1125
                                           -> +(s)
```