1. My 10=181010814-100.00=0 C+= 094+ 610/= 104

Find relocity at t= 1090 second using newton divided difference method for guadratie intepolation.

to = 65.75; v(to) = 19.02.249

+1 = 695.5; V (+1) = 2×99.901

 $t_2 = 125.25$; $V(t_2) = 3697.553$ $b_0 = V(t_0) = 1902.249$ $V(t_1) - V(t_0)$

b1 = -to

2799.904-3697.553

2799.901-1902.249 1=10 95.5-65.75 0008 897,65210 phinology buil rollib tobivit notwer frie v(t2)-v(ti) v(ti)-v(to) ers. [0+2] - +1(ot) + (ch.c.+1 = +6 100,66×3 - (4) ~ (4°00) = 1.1-3692.553 - 2299,901 = 30.17 125.25 - 65.25 897.65200 .00xp 29.25 - 30.13

= 0.

$$v(t) = b_0 + b_1(t - t_0) + b_2(t - t_0)(t - t_1)$$

= 1902.249 + 30.17(t - \$\infty(65.75) + 0
(+ - 65.75)(t - 30.75)

$$V(109) = 1004.1902.249 + 30.17$$

$$(104 - 65.75) + 0$$