

Mark adeyemi victor

ELECTRICAL engineering

18/ENG04/048

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1)

$s = -2t^2 + 80t$
at $t = 20s$
 $s = -2(20)^2 + 80(20)$
 $s = 1600 - 800 = 800m$
s-t graph

ii) acceleration
 $a = \frac{dv}{dt}$
 $\therefore a = -4m/s^2$
at $t = 20s, a = -4m/s^2$
a-t graph

2.)

i. $s = \int v dt$

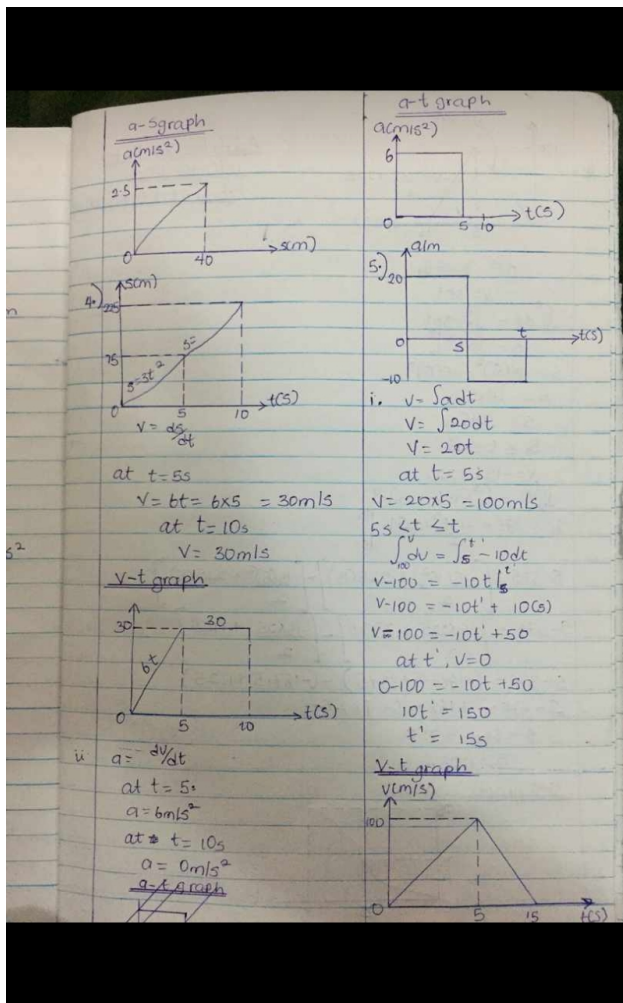
3.)

$a = \left(\frac{dv}{ds}\right)v$
 $v = 0.25s$
 $a = 10 \times d(0.25s)/ds$
 $a = 10 \times 0.25$
 $a = 2.5m/s^2$

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