2()-P-MOM-DX-22
A 1 Comments on the
A team of engineers is performing experiments on the
there of a new sports car to follow regulations, the car must
be able to stop completely from a starting velocity of v=15%
1- The Assamble the whols lock of actomice the
coefficient of faction and how long it taker for the
car to come to se styp.
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The Commence
d t,
Solution: MV, + SFdt = MVz
t ₁
(O - F1 - 4044
(0 - ff = may
$\alpha y = -V_1^2 = -7.25 \% s^2$
$\frac{\alpha y}{2d}$
Ç.
$-ff - may = \mu N - \mu mg \qquad \mu = \frac{\alpha_y}{g} = 0.229$
$mv_1 + Ft = mv_2 = 0$
$my + (-\mu mg)t = 0$
y = t= vi = 6.6773
Mg