(HM 92) (CID: 105102)

$$\begin{array}{c|c}
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\end{array}$$

$$\ddot{y} = -9$$

$$\dot{x} = -At + C_1$$

$$\dot{y} = -\frac{1}{2}9t^2 + C_1t + C_2$$

$$\dot{x} = -At + C_1$$

$$\dot{x} = -At + C_1$$

$$\dot{x} = -\frac{1}{2}At^2 + C_1t + C_2$$

$$C_1 = V_{xi} = 0$$

$$C_2 = V_{i} = 0$$

$$C_2 = X_{i} = 0$$

$$y = -\frac{1}{2}0t^2 + Vyit$$

if $Vyi = \frac{1}{2}m/s$ $y = -\frac{1}{2}(9.8\frac{m}{5^2})t^2 + 1t$

$$\pm (1-\frac{1}{2}(9.8\pm))=0$$
 $0=-\frac{1}{2}(9.8)\pm^2+\pm$

$$-0.05 = -\frac{1}{2}A(0.204)^{2}$$

$$-A = \frac{-0.1}{0.204^{2}} \approx [+2.4029]^{\frac{M}{52}}$$

$$\times dir.$$