

e-07-1-033

$$\vec{a}(t) = (12t^2, 18t - 8, -6t)$$

$$\vec{v}(t) = (4t^3 + v_{0,x}, 9t^2 - 8t + v_{0,y}, -3t^2 + v_{0,z})$$

$$\vec{v}(t) = (4t^3 + 6, 9t^2 - 8t + 15, -3t^2 - 8)$$

$$\vec{r}(t) = (t^4 + 6t + x_0, 3t^3 - 4t^2 + 15t + y_0, -t^3 - 8t + z_0)$$

$$\vec{r}(t) = (t^4 + 6t + 3, 3t^3 - 4t^2 + 15t - 1, -t^3 - 8t + 4)$$