$$X_{5} = X_{0} + V_{0}\Delta t + \frac{1}{2}\alpha(\Delta t)^{2}$$

$$V_{1} = a_{1}t_{1}$$

$$V_{2} = V_{1}$$

$$V_{3} = V_{2}t_{1}$$

$$V_{1} = \frac{1}{2}V_{1}t_{1}$$

$$V_{2} = V_{1}t_{2}t_{3} + \frac{1}{2}V_{2}(t_{3}-t_{2})$$

$$V_{3} = V_{1}t_{1}$$

$$V_{2} = V_{1}t_{2}t_{3} + \frac{1}{2}V_{2}(t_{3}-t_{2})$$

$$V_{3} = V_{1}t_{2}t_{3}$$

$$V_{4} = \frac{1}{2}V_{3}(t_{3}-t_{2})$$

$$V_{5} = \frac{1}{2}V_{1}t_{1}$$

$$V_{7} = V_{1}t_{2}t_{3}$$

$$V_{7} = V_{1}t_{3}t_{4}$$

$$V_{7} = V_{1}t_{4}t_{4}$$

$$V_{7} = V_{1}t_{4}t_{4}$$