

No.

$$v_{it} = 3 \cdot 10^3 \text{ m/s}$$

$$v_e = 5 \cdot 10^3 \text{ m/s}$$

$$M dv = -v_e dM$$

$$v_f = v_i = v_e \log \frac{M_{i1}}{M_f} = v_e \log 2$$

$$v_f = v_i + v_e \log 2$$

$$3 + 5 \cdot 10^3 \cdot \log 2 = 6.5 \cdot 10^3 \text{ m/s}$$

Thank you

Student ID : 201923250

Name : Kobilov Ilkhomjon