

y (m)

Euler method

$g = 9.8 \text{ m/s}^2$, $B_2/m = 4.0 \times 10^{-5} \text{ m}^{-1}$, $Y_0 = 1 \times 10^4 \text{ m}$
 $a = 6.5 \times 10^{-3} \text{ K/m}$, $T_0 = 293 \text{ K}$, $\gamma = 1.4$, $v_0 = 700 \text{ m/s}$
 $\Delta t = 0.0005 \text{ s}$

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|----------------------|---|
| no drag | $\theta: 45.0^\circ$, range: 50000.1 m |
| constant air density | $\theta: 38.8^\circ$, range: 22069.2 m |
| isothermal model | $\theta: 45.9^\circ$, range: 26621.5 m |
| adiabatic model | $\theta: 43.7^\circ$, range: 24589.8 m |

