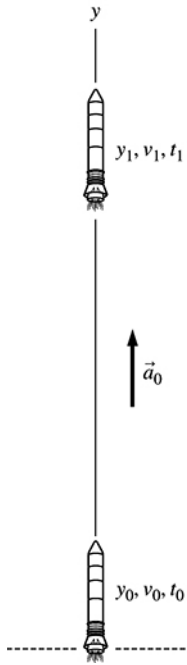


1.22. Visualize: The particle moves upward with a constant acceleration \vec{a} . The final velocity is 200 m/s and is reached at a height of 1000 m.



Known

$$y_0 = 0 \quad v_0 = 0 \quad t_0 = 0$$

$$y_1 = 1.0 \text{ km}$$

$$v_1 = 200 \text{ m/s}$$

Find

$$a_0$$