

**Given:**

$$t = 4s \quad \alpha = 90^0 \quad g = 10 \frac{m}{s^2}$$

**Find:**  $v$

**Solution:**

$$v = \frac{gt}{2 \sin \alpha} = \frac{gt}{2} = \frac{10 \cdot 4}{2} m/s = 20 m/s$$

**Answer:**  $v = 20 m/s$