

9. This problem differs from Problem 7 in that the car has a non-zero initial velocity and the acceleration is given as being negative (the car slows down).

$$v = v_0 + a t$$

$$v = 20 \text{ m/s} + (-3 \text{ m/s}^2)(4 \text{ s})$$

$$v = 8 \text{ m/s}$$