Acceleration & Speed

Problems.

III

1. **If a car changed its velocity from 120 m/s to 238 m/s in 310 seconds, what is the acceleration?**
2. **If a car has an acceleration of 210 m/s2, an initial velocity of 330 m/s and a time of 115 seconds, what is the final velocity?**
3. **If a car had an acceleration of 433 m/s2, an initial velocity of 520 m/s and a final velocity of 640 m/s, what was the time?**
4. **If a car accelerated from 10 m/s to 15 m/s in 25 s, what is the acceleration?**
5. **If it took you 2.5 hours to travel 85 miles, what was your average speed?**
6. **If you were at a stop sign and it took 75 s to reach a speed of 25 m/s, what was your acceleration?**
7. **If you were traveling 55 m/s and stomped on your brakes to have a final velocity of 35 m/s in 4.5 s, what would your accelerationbe?**
8. **If an object had an acceleration of 4.5 m/s2, a time or 8.9s and an initial velocity of 2.5 m/s, what is its final velocity?**