

8. If  $s(t) = 4t + 1$  is a measure of feet traveled per second, find
- the average velocity between  $t = 1$  and  $t = 5$
  - the instantaneous velocity at  $t = 2$  seconds.
9. If  $s(t) = t^2 + 4$  is a measure of feet traveled per second, find
- the average velocity between  $t = 0$  and  $t = 4$
  - the instantaneous velocity at  $t = 1$  second.
10. If  $s(t) = t^2 - 3t + 2$  is a measure of miles traveled per hour, find
- the average velocity between  $t = 0$  and  $t = 4$
  - the instantaneous velocity at  $t = 1$  hour.
11. If  $s(t) = t^3 + t - 1$  is a measure of feet traveled per second, find
- the average velocity between  $t = 2$  and  $t = 7$
  - the instantaneous velocity at  $t = 2$  seconds.
12. If  $s(t) = \frac{6}{t+2}$  is a measure of feet traveled per second, find
- the average velocity between  $t = 1$  and  $t = 7$
  - the instantaneous velocity at  $t = 4$  seconds.