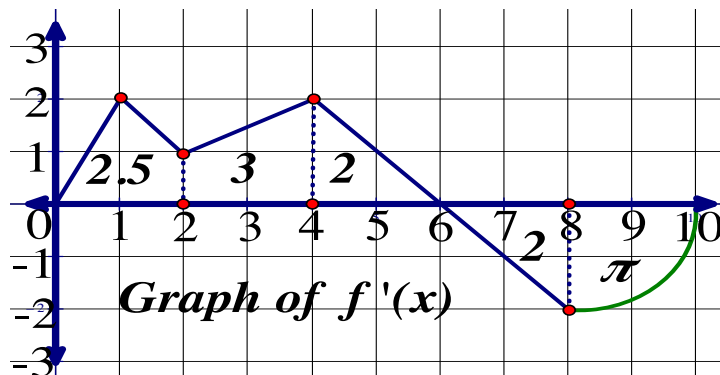


|        |    |    |    |    |    |
|--------|----|----|----|----|----|
| $t$    | 0  | 2  | 5  | 6  | 10 |
| $W(t)$ | 12 | 17 | 21 | 16 | 13 |

Approximate  $\int_0^{10} W(t)$  by:

- a) Using a left Riemann sum of 4 subdivisions.      b) Using a right Riemann sum of 4 subdivisions.
- c) Finding a Trapezoidal sum of 4 subdivisions.      d) Find  $W'(8)$ .



- a) When does  $f$  have a rel. max.?  
 b) When is  $f$  concave down?

- c) If  $f(0) = 22.5$ , find each of the following:  
 d) Evaluate each:

$f(2) =$

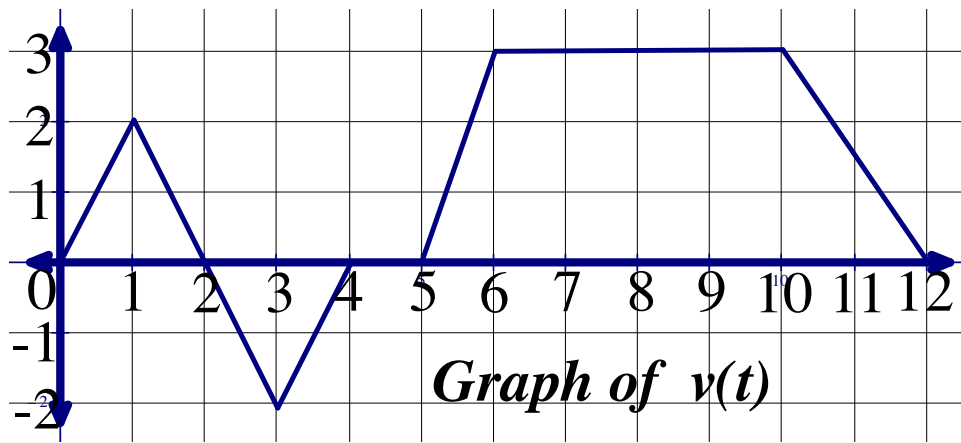
$f'(2) =$

$f(6) =$

$f''(3) =$

$f(10) =$

$f''(9) =$



A student rides his bike to school and forgets his homework. After locating his homework, he went to school. The graph above shows a student's velocity in yards per minute.

- a) What is his acceleration at  $t = 11$  ?
- b) On which intervals is he at maximum velocity?
- c) When does he return home?
- d) How long does it take him to find his homework?
- e) How far does he live from school?
- f) How far did he ride his bike on this day?
- g) How far does he travel before turning around?