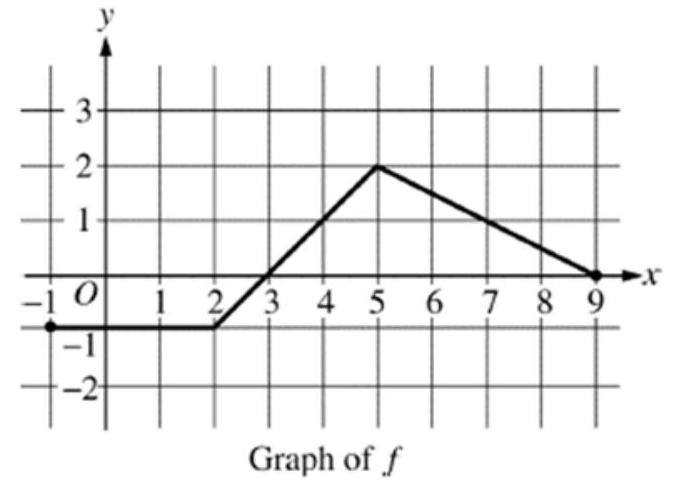
Review Test 1

1. (calculator not allowed) The is
   1. 0
   2. nonexistent

Let be the function given above. What are all values of and for which is differentiable at ?

* 1. and
  2. and
  3. and is any real number
  4. , where is any real number
  5. There are no such values of and

1. (calculator not allowed) If the function is continuous for all real numbers and if when , then
   1. -4
   2. -2
   3. -1
   4. 0
   5. 2
2. (calculator not allowed) is
   1. 1
   2. Nonexistent
3. (calculator not allowed)
   1. 6
   2. 2
   3. 1
   4. 0
4. (calculator not allowed) If is the function defined above, then is
   1. undefined
5. (calculator not allowed)
6. calculator not allowed)
7. (calculator not allowed)
8. (calculator allowed) The function is continuous on the closed interval . If and , then
   1. 31
   2. 62
   3. 95
   4. 190
9. (calculator not allowed) Using the substitution is equal to which of the following?
10. (calculator not allowed)
11. (calculator not allowed)
12. (calculator not allowed) The graph of a piecewise linear function is given. What is the value of ?
    1. 7.5
    2. 9.5
    3. 27.5
    4. 47
    5. 48.5
13. (calculator not allowed) is
    1. divergent