21J.3 Properties of Definite Integrals

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| --- | --- |
| 1. a.  b.  2.  3. |  |
|  |
| 4. a. | b. |

5. Given , , , find each of the following.

a.  b. 

c.  d. 

6. Given is the graph of . Another function is defined as .

Find the following.

a.  = \_\_\_\_\_\_\_\_\_\_

b.  = \_\_\_\_\_\_\_\_\_\_\_

7. The graph of the function  consists of two semicircles.

Find the exact value of the following integral:

