**1. Complete the following statement.**

|  |  |
| --- | --- |
| **a.** | The graph of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has no breaks, holes, or gaps. You can trace the graph of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ without lifting your pencil. |
| **b.** | Points in the domain of a function where the function changes from increasing to decreasing or from decreasing to increasing are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_. |

**2. Write T for true or F for false**

|  |  |  |
| --- | --- | --- |
| **a.** | A function remains constant on an interval if and only if for every and contained in , whenever . |  |
| **b.** | A function is increasing on an interval if and only if for every and contained in , whenever . |  |

**Multiple Choices**

**3. Find**  **!**

|  |  |  |
| --- | --- | --- |
| **a.** |  |  |
| **b.** |  |  |
| **c.** |  |  |

**4. Find**

|  |  |  |
| --- | --- | --- |
| **a.** |  |  |
| **b.** |  |  |
| **c.** |  |  |

**5. Find**

|  |  |  |
| --- | --- | --- |
| **a.** |  |  |
| **b.** |  |  |
| **c.** |  |  |

**ANSWERS**

**1. Complete the following statement.**

|  |  |
| --- | --- |
| **a.** | The graph of a continuous function has no breaks, holes, or gaps. You can trace the graph of a continuous function without lifting your pencil. |
| **b.** | Points in the domain of a function where the function changes from increasing to decreasing or from decreasing to increasing are called critical points. |

**2. Write T for true or F for false**

|  |  |  |
| --- | --- | --- |
| **a.** | A function remains constant on an interval if and only if for every and contained in , whenever . | **T** |
| **b.** | A function is increasing on an interval if and only if for every and contained in , whenever . | **F** |

**Multiple Choices**

**3. Find**  **!**

|  |  |  |
| --- | --- | --- |
| **a.** |  |  |
| **b.** |  |  |
| **c.** |  |  |

**4. Find**

|  |  |  |
| --- | --- | --- |
| **a.** |  |  |
| **b.** |  |  |
| **c.** |  |  |

**5. Find**

|  |  |  |
| --- | --- | --- |
| **a.** |  |  |
| **b.** |  |  |
| **c.** |  |  |