**Practice Quiz**

**Multiple Choice**

*Identify the choice that best completes the statement or answers the question.*

**\_\_\_\_ 1.** The non-permissible value(s) for the rational expressions  is (are)

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | *x* ¹ , *x* ¹ - | **C** | *x* ¹ |
| **B** | *x* ¹ | **D** | *x* ¹ 4 |

**\_\_\_\_ 2.** What is the simplified version of the rational expression ?

|  |  |  |  |
| --- | --- | --- | --- |
| **A** |  | **C** |  |
| **B** |  | **D** |  |

**\_\_\_\_ 3.** Express the product  in simplest form.

|  |  |  |  |
| --- | --- | --- | --- |
| **A** |  | **C** |  |
| **B** |  | **D** |  |

**\_\_\_\_ 4.** Express the quotient  in simplest form.

|  |  |  |  |
| --- | --- | --- | --- |
| **A** |  | **C** |  |
| **B** |  | **D** |  |

**\_\_\_\_ 5.** When fully simplified,  is equal to

|  |  |  |  |
| --- | --- | --- | --- |
| **A** |  | **C** |  |
| **B** |  | **D** |  |

**\_\_\_\_ 6.** Simplify the rational expression .

|  |  |  |  |
| --- | --- | --- | --- |
| **A** |  | **C** |  |
| **B** |  | **D** |  |

**\_\_\_\_ 7.** When fully simplified, ignoring restrictions on the variable,  is equal to

|  |  |  |  |
| --- | --- | --- | --- |
| **A** |  | **C** |  |
| **B** |  | **D** |  |

**\_\_\_\_ 8.** Simplify . State any non-permissible values.

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | , | **C** | , |
| **B** | , | **D** | , |

**\_\_\_\_ 9.** Solve the rational equation .

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | *x* = 10 | **C** | *x* = –10 |
| **B** | *x* = 4 and –1 | **D** | *x* = –10 and 1 |

**Practice Quiz**

**Answer Section**

**MULTIPLE CHOICE**

**1.** ANS: A

**2.** ANS: C

**3.** ANS: B

**4.** ANS: B

**5.** ANS: D

**6.** ANS: C

**7.** ANS: D

**8.** ANS: C

**9.** ANS: A