Boolean Expressions Worksheet

Evaluate the boolean expressions. Choose true, false or invalid.

Given the following variable declaration and initialization:

**int x = 10;**

**int y = 15;**

**int z = 8;**

1. 5 > 8 || 10 > 6
   * + True False Invalid
2. x < y && z > 8 // values of x, y, and z are given above
   * + True False Invalid
3. x < y || z > 8
   * + True False Invalid
4. ! (x < 10)
   * + True False Invalid
5. ! x < 10
   * + True False Invalid
6. x < 8 || > 20
   * + True False Invalid
7. !(x != 5)
   * + True False Invalid
8. !x != 5
   * + True False Invalid
9. y – 5 == 10
   * + True False Invalid
10. y < 10 || x == y && z == 8 // remember that && is evaluated before ||
    * + True False Invalid
11. true || false

* True False Invalid

1. false || false && true
   * + True False Invalid
2. true || true || false
   * + True False Invalid
3. false && true || true
   * + True False Invalid
4. false || false
   * + True False Invalid
5. true && false
   * + True False Invalid
6. !true
   * + True False Invalid
7. !false
   * + True False Invalid
8. !true || false
   * + True False Invalid
9. (true || false) && true && false
   * + True False Invalid
10. true || (false && true) && false
    * + True False Invalid
11. (true || false) && !(true && false)
    * + True False Invalid