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. $x < y \mid \mid z > 8$

• True False Invalid

4. ! (x < 10)

• True False Invalid

5. ! x < 10

• True False Invalid

6. $x < 8 \mid | > 20$

• True False Invalid

7. !(x != 5)

• True False Invalid

8. !x != 5

• True False Invalid

9. y - 5 == 10

• True False Invalid

10. $y < 10 \mid \mid x == y \&\& z == 8 \mid // remember that \&\& is evaluated before \mid \mid$

• True False Invalid

11.	true false			
	•	True	False	Invalid
12.	false false && true			
	•	True	False	Invalid
13.	true tr	ue false		
	•	True	False	Invalid
14.	false && true true			
	•	True	False	Invalid
15.	false false			
	•	True	False	Invalid
16.	true && false			
	•	True	False	Invalid
17.	!true			
	•	True	False	Invalid
18.	!false			
	•	True	False	Invalid
19.	!true false			
	•	True	False	Invalid
20.	(true f	alse) && true &&	k false	
	•	True	False	Invalid
21.	true (false && true) && false			
	•	True	False	Invalid
22.	(true false) && !(true && false)			
	•	True	False	Invalid