Name _____

Period _____

AP CS A

Boolean Expression Evaluation Review

Evaluate each expression to determine whether it is true, false or invalid. If the expression is valid, determine if the evaluation of the expression can be short-circuited.

Given the following variable declaration and initialization:
int favNum= 25;

1. favNum > 5 && < 20

2. 10 – 4 == 6 || 4 == 4 || !(favNum < 10)

3. !30 == favNum || 10 <12

4. false && true && true

5. !false && false

Use DeMorgan's Laws to "distribute" the not symbols
You are given the following variable declaration. Assume that the variable has been initialized appropriately.

int myNum = <valid int value>;

6. ! (myNum < 10) || myNum == 20

7. ! (myNum != 9 && !(myNum >= 7))

8. 5 == myNum || !(!(myNum > 5)

Evaluate each expression to determine whether it is true, false or invalid.

9. 3 != 3 || !(3 > 6) && 5 == 7

10. true || true && false