Name	Period
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Skill 28.01 Exercise 1				
Refer to the following variable declarations, then indicate the output for each console.log()				
<pre>var a = 8; var b = 9; var c = a; var d = "hello"; var e = "goodbye";</pre>				
<pre>console.log(a == b);</pre>				
<pre>console.log(a > b);</pre>				
<pre>console.log(a < b);</pre>				
<pre>console.log(d == e);</pre>				
<pre>console.log(d > e);</pre>				

Skill 28.02 Exercise 1				
Evaluate whether each of the following is true or false for the conditions below,				
x = 11 and $y = 5$				
((x < 10) AND (y = 6)				
((x < 10) AND (y = 5)				
$((x > 10) AND (y \neq -3)$				
((x < 10) OR (y = 5))				
((x > 10) OR (v = 5))				

Skill 28.02 Exercise 2

Refer to the following variable declarations, then (a) Re-write each statement using proper JavaScript syntax and (b) indicate whether the statement evaluates to *true* or *false*

```
var x = 79;
var y = 46;
var z = -3;
var w = 13.89;
var y = 40.0;
var t = true;
var f = false;
```

Statement	Proper JavaScript syntax	T/F
((x < 10) AND (y = 46)		
((x > 10) AND (y = 46)		

В

С

D

(num > 15) OR (num = 15)

NOT (num < 15)

NOT (num < 16)

Jame				F	Period	
(($x > 10$) AND ($z \neq -3$)						
((x > 10) OR (y = 5))						
true AND false						
true AND !false						
!t OR f						
x ≠ 3 OR f						
y/2 > w AND w ≠ x						
Skill 28.03 Exercise 1						
Refer to the following code to evaluate w	hat is printed.					
var x = 79, y = 46, z var d = 13.89, jj = 4 var b = true, c = fals	0.0;					
console.log(b && c !c);						
console.log(x == y && !(z	< 0) b &	& c);				
console.log(x != y && y==z	&& b !c);				
console.log(x > y c 1	o && jj%4 !	= 0);				
Skill 28.04 Exercise 1						
Simplify the following						
$!(A > B \parallel B != A)$						
! (A == B (B >= C B < A))						
Skill 28.04 Exercise 2	-1					
Which of the following Boolean expressions are equiv	alent to the expressio	n num ≥ 1!	5 !			
Select two answers.						
A (num > 15) AND (num = 15)						

AP Computer Science Principles Ticket Out the Door Set 28: Boolean Expressions

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A NAND gate is a type of logic gate expressions correctly models a NAME of the expression of the ex	e 3 ws the value of exp Value of input2 true false true false		alues of input1 and input2	
Skill 28.05 Exercise	e 1			
In a certain country, a person must be at least 16 years old to drive a car and must be at least 18 years old to vote. The variable age represents the age of a person as an integer. Write a function that accepts age as a parameter and returns true if the person is old enough to drive but not old enough to vote and returns false otherwise.				
chough to vote and i	eturns raise other w	150.		
Skill 28.05 Exercise	. 2			
A programmer wants to determine whether a score is within 10 points of a given target. For example, if the				
target is 50, then the scores 40, 44, 50, 58, and 60 are all within 10 points of the target, while 38 and 61 are not.				
Write a function that accepts score as a parameter and returns true if and only if the score is within 10 points of the target?				

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