Javascript

Ex1:

A)
```
var a = 10;
var b = 5;
var c = a + b;
```

What is the value of the variable c ?   15

B)
```
var num1 = 10;
var num2 = 50;
num1 *= 9;
num2 /= num1;
num1 = 5+10 *3-1;
num2 =  9 * num1 ;
num2 = num1 / 8 +2;
```

What is the value of the variable num1 and num2 ?   num1 = 34 , num2 = 4.25

Ex2:

```
var number = 10;
number ++ ;
number ++;
number +=  5;
number - - ;
number *=2;
```

What is the value of the variable number ?   32

Ex3:

on every expression write true or false ?

True	1<=8 +1
False	(2-3+4)*(9+7) && false
True	10 + 18 >= 3 || 4<= 10
True	10==10 || 10 === 10
	10 == 10 && 20 == 30 || 5%2 == 1 False
	10 == 10 || 20 == 30 && 5%2 == 1 False
	20 == 30 || 10 == 10 || 5%2 == 0 True
	(33 > 20) || (2 < 12) && 10 || 2<= 3 && !true True
True	true && true || false || true
True	true && false || 8< 10 && !false
True	true || false && 5<= 9 || 10 != 38
	!false || !true && !false &&| !true False
True	(!10) && (10) || (!10) && (10) && 2<9 || true
True	(!false) || (!10)

Ex 4:

Write on every expression what will be printed, below you can see the values of all the variables.

var A = 5;
var B = 3;
var C = 19;
var D = -2;
var X = 4;
var Y = 1;

```
(1)     (5*X)+2*((3+B)+4)
(2)     (5*(X*2)*3)*(B+4)
(3)     A == (B=5*5+Y)
(4)     A += (X+5+A-Y)
(5)     A != (C *= (-D+A))
(6)     A *= A+(7-X-D+3)
(7)     A %= D++
(8)     A %= ++D
(9)     (X++)*(A+C)+ (A++)
(10)     A = A-- + X*(B<A)+Y*!(B<C)+5%2
(11)     !(X-D+C)||D+B+A && D++
(12)    A&&C||!0&&A&&!D
(13)     ((A&&B)||(!0&&C))&&!D || A || B && Y
(14)     ((A&&C)||!0)&&(C&&(!D)) && !A || !B
```

1: 40
2: 840
3: false
4: 18
5: true
6: 65
7: 1
8: 0
9: 101
10: 10
11: -2
12: 19
13: 5
14: false

Exercice 5:

Give value to the variable a, b, c, d in order that the if() **will be TRUE**?
Give value to the variable a, b, c, d in order that the if() **will be FALSE**?

if(a || b || c || d || false)

if(a == b || c <= d)

if (a <= c && c <= d || !b)

if (a != b || a<c && !c)

if (a != b ||a<= c || a<= b || true)

if (a != b ||a<= c || a< b || c==c)

if (a%b == 0 && c%d == 1)

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Exerecice 5 answers:

for true:
1. a = 1, b = 2, c = 0, d = 0
2. a = 3, b = 3, c = -2, d = 1
3. a = 0, b = 0, c = 1, d = 1
4. a = 5, b = 4, c = 3
5. a = 0, b = 1, c = 1
6. a = 0, b = -1, c = 0
7. a = 6, b = 2, c = 7, d = 6

for false:
1. a = 0, b = 0, c = 0, d = 0
2. a = 5, b = 4, c = 2, d = 3
3. a = 1, b = 1, c = 2, d = 3
4. a = 3, b = 3, c = 3
5. a = 1, b = 0, c = -1
6. a = 1, b = 0, c = 1
7. a = 10, b = 5, c = 7, d = 3