HW7

1) Consider the following JavaScript skeletal program:

// The main program
var x;

function sub1() {
    var x;
    function sub2() {
        ...
    }
}

function sub3() {
    ...
}

Assume that the execution of this program is in the following unit order:
main calls sub1
sub1 calls sub2
sub2 calls sub3

a) Assuming static scoping, in the following, which declaration of x is the correct one for a reference to x?

1) sub1
2) sub2
3) sub3

b) Repeat part a, but assume dynamic scoping.
2) Assume the following JavaScript program was interpreted using static-scoping rules. What value of x is displayed in function sub1? Under dynamic-scoping rules, what value of x is displayed in function sub1?

```javascript
var x;
function sub1()
{
    document.write("x = " + x);
}
function sub2()
{
    var x;
    x = 10;
    sub1();
}

x = 5;
sub2();
```