1 Assignment (5 points)

```matlab
x = 6;
y = 3;
z = x / y;
x = x - y;
y = z + 2 * x;
```

What are the final values for

x: y: z:

2 MATLAB functions (5 points)

```matlab
phi = 2*pi;
theta = phi/2;
st = sin(theta);
val = exp(st);
theta = 2*theta;
cos(theta)
```

What are the final values for

theta: ct: val: ans:

3 Swapping two values (5 points)

Complete the following function so that it produces the desired output.

```matlab
function [x,y] = swap(x,y)
    % This function should swap the values of two variables.
    % If you want, you can use extra variables.
end
```

Now assume that the above function is stored in our current working directory and it is named `swap.m`. On the command window if we enter the following lines,

```matlab
x = 0;
y = 4;
z = 5;
[x,y] = swap(x,y);
[z,r] = swap(x,z);
swap(y,r);
```

What will be the stored values for

x: y: z: r: ans: