

### 1 Assignment (5 points)

```
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)

```
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.

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

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,

```
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: