

Homework 20

Answer the following questions. Your answers should be typed and turned in on Blackboard and follow the formatting requirements defined in the syllabus.

Look at each of the examples of code below. Assuming the code runs successfully, give the correct value of the variables.

1.

```
a = 3
b = 3 ^ 2
c = 3 - 2 + 6
d = 3 - (2 + 6)
e = 5 * 4
f = 3 + 10 / 2 - 4 * 3 + 8
g = (3 + 10) / (2 - 4) * (3 + 8)
h = a + b + c
```

What are a, b, c, d, e, f, g, and h equal to? **8 pts**

2.

```
x = 3
y = 5
x = x + 5
y = y + 2
```

What are x and y equal to? **2 pts**

3.

```
x = 3
y = 5
x = y + 5
y = x + 2
```

What are x and y equal to? **2 pts**

4.

```
x = 3
y = 9
If
    x <= 3
Then
    y = 10
```

What are x and y equal to? **2 pts**

5.

```
x = 3
If
    x < 3
Then
    y = 10
Else
    y = 14
```

What are x and y equal to? **2 pts**

6.

```
x = 3
If
    x == 3
Then
    y = 10
Else
    y = 14
```

What are x and y equal to? **2 pts**

7.

```
x = 3
If
    x ~= 3
Then
    y = 10
Else
    y = 14
```

What are x and y equal to? **2 pts**