1. (18pts) What are the results of the following evaluations? Show the fully parenthesized form of the expression that Java uses for the evaluation, and show the value of the expression. Assume that double x = 2.0, y = 3.0, z = 5.0; int a = 2, b = 2, c = 5;

<table>
<thead>
<tr>
<th>Expression</th>
<th>Fully Parenthesized Expression</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>x – y * y + z</td>
<td></td>
<td></td>
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<tr>
<td>(x + y / 2) * c / a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>107 / 3 + c / b</td>
<td></td>
<td></td>
</tr>
<tr>
<td>z + 107 % 3</td>
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</tr>
<tr>
<td>(c == 5) &amp;&amp; (a &gt; 2)</td>
<td></td>
<td>(b + c != 3)</td>
</tr>
<tr>
<td>!(c &gt; 10) &amp;&amp; (a + b == 4)</td>
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</tbody>
</table>
2. (8 pts) Consider the following Java code fragment.

```java
int x;
String s = "pink";
x = input.nextInt();
if( x < 10 )
{
    if ( x > 5)
        s = "red";
    else
        {
            if ( x < 5)
                s = "blue";
            else
                s = "green";
        }
}
System.out.println( s);
```

Under what conditions will the fragment print

a) red

b) pink

c) blue

d) green