Grading Your Background Quiz

Answers. Below are the two possible correct answers to this Quiz.

```
<table>
<thead>
<tr>
<th>state</th>
<th>x</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

0/0

(input/output)

Figure 1.

```

```
<table>
<thead>
<tr>
<th>assignment</th>
<th>0</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>y</td>
<td>1, 1</td>
<td>2, 1</td>
</tr>
<tr>
<td>q</td>
<td>1, 0</td>
<td>2, 1</td>
</tr>
</tbody>
</table>

0/1

1

2

1/1

assignment

0  1

y

0   1    0   1

0/0

y q

(input/output)

Figure 1.

```

```

Figure 2

y' = x

z = x + \overline{y}

scratchwork

```

```

Figure 3

Delay FF

input x

Delay FF

output z

```

```

Figure 3

```

```

Figure 2

```

```

Figure 3

```

```
Scoring your quiz. There are four possible "grades": excellent, satisfactory, unsatisfactory, or fail.

If you got either of the above answers without any mistakes, then give yourself "Excellent" and my congratulations!

If your answer was perfect except for a trivial mistake (e.g., you miscopied a number or misconnected a line) or a single mistake in setting up the state table (e.g., you had one incorrect next-state in the state table, but Figure 3 would have been correct for your state table), give yourself "Satisfactory".

Give yourself "Unsatisfactory" if:

   You had a correct state table but Figure 3 was completely wrong or you couldn't recall how to do it, or

   You made serious mistakes in the state table or you didn't know how to get the state table, but you were still able to get Figure 3 correct.

Give yourself "Fail" if both the state table and Figure 3 were wrong or you didn't know how to do them.

How to interpret your grade. An excellent or satisfactory grade suggests that you are sufficiently well-prepared to take EE552 and do well. "Unsatisfactory" indicates that you will need to do some fairly serious review in elementary logic design by the end of the second week of the semester if you wish to get a satisfactory grade in EE552. Take "Fail" to mean that you need to take an elementary course in logic design (if you haven't already done so) or that you require extensive review before you should consider taking this course. Otherwise, you are at risk of a C in this course.

Warning. Do not consider learning the material covered in this quiz as a substitute for an elementary course in logic design. This quiz is meant to sample your knowledge, not to summarize it. The EE 101 Review Exam shown elsewhere on this web page indicates the breadth and depth of material typically covered in an elementary logic design course that would satisfy the EE 552 course prerequisite.