Prequiz 1

1. According to the assigned watchings, you should (CIRCLE ONE)
   (a) Only watch in a quiet setting with no distractions.
   (b) Use PAUSE, REWIND, and REPLAY frequently.
   (c) Treat online videos as if they were actual lectures.

2. According to the assigned watchings (CIRCLE ONE)
   (a) Definitions are NOT important,
   (b) You should ALWAYS look for worked-out examples of problems you’re trying to solve.
   (c) Higher mathematics involves a lot of trying things that don’t work out.
   (d) You should NEVER write down anything but the steps that lead directly towards a solution.

3. TRUE or FALSE (circle one): Based on the table, \( \lim_{x \to 4} f(x) = 7 \).

<table>
<thead>
<tr>
<th>x</th>
<th>3.9</th>
<th>3.99</th>
<th>3.999</th>
<th>4</th>
<th>4.001</th>
<th>4.01</th>
<th>4.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>f(x)</td>
<td>7.8</td>
<td>7.98</td>
<td>7.998</td>
<td>7</td>
<td>8.002</td>
<td>8.02</td>
<td>8.2</td>
</tr>
</tbody>
</table>

4. TRUE or FALSE (circle one): If \( g(a) = 0 \), then \( \lim_{x \to a} \frac{f(x)}{g(x)} \) is undefined.

5. TRUE or FALSE (circle one): If \( f(x) = g(x) \) for all \( x \) EXCEPT \( x = a \), then \( \lim_{x \to a} f(x) = \lim_{x \to a} g(x) \).