Name: 

**Problem 1.** Calculate the continued fraction expansions of the given numbers:

(a) \( \frac{3}{8} = \)

(b) \( \frac{17}{12} = \)

**Problem 2.** Calculate the convergents of the continued fraction below:

\[
1 + \frac{1}{2 + \frac{1}{1 + \frac{1}{2 + \frac{1}{1 + \frac{1}{2}}}}}\]

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

First convergent: Second convergent: Third convergent:
Fourth convergent: Fifth convergent: Sixth convergent: