Answer all the following questions.

1. List 2 pairs of angles as described below from the diagram:

   a) alternate angles: __________________, __________________
   b) interior angles: __________________, __________________
   c) vertically opposite angles: __________________, __________________
   d) corresponding angles: __________________, __________________

2. Find the unknown angles. State the reasons for your answers.
   a) \( y = \) ___________
      Reason: __________________
   b) \( c = \) ___________
      Reason: __________________
   c) \( ? = \) ___________
      Reason: __________________
3. Find the value of the unknown in each of the following figures.

a) \[ x = \quad \]

b) \[ x = \quad \]

c) \[ x = \quad \]

d) \[ x = \quad \]

\[ a = \quad \] Reason: ____________________

\[ b = \quad \] Reason: ____________________

\[ e = \quad \] Reason: ____________________

\[ a = \quad \] Reason: ____________________

\[ b = \quad \] Reason: ____________________
4. For each of the following angles, find its complementary and supplementary angles.

<table>
<thead>
<tr>
<th></th>
<th>$LU$</th>
<th>Supplementary angle</th>
<th>Complementary angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>$67^\circ$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(b)</td>
<td>$11^\circ$</td>
<td></td>
<td></td>
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