The number of Facebook friends was obtained for each student in a recent statistics class. The number of friends for 13 female students and 16 male students are shown below.

Number of Facebook friends for 13 female and 16 male students

<table>
<thead>
<tr>
<th>Female students</th>
<th>239</th>
<th>497</th>
<th>157</th>
<th>117</th>
<th>1216</th>
<th>645</th>
<th>193</th>
<th>674</th>
<th>824</th>
<th>1330</th>
<th>1505</th>
<th>1476</th>
<th>158</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male students</td>
<td>194</td>
<td>521</td>
<td>98</td>
<td>89</td>
<td>436</td>
<td>281</td>
<td>373</td>
<td>469</td>
<td>425</td>
<td>154</td>
<td>1086</td>
<td>1280</td>
<td>626</td>
</tr>
<tr>
<td></td>
<td>355</td>
<td>985</td>
<td>835</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Find the mean and standard deviation of the number of friends for female students and male students (use your calculator's statistical capabilities).

<table>
<thead>
<tr>
<th></th>
<th>Female students</th>
<th>Male students</th>
</tr>
</thead>
<tbody>
<tr>
<td>mean</td>
<td></td>
<td></td>
</tr>
<tr>
<td>stand. dev.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Find the 5-number summaries: (if $n$ is odd, when calculating quartiles include the median in both halves)

<table>
<thead>
<tr>
<th></th>
<th>Female students</th>
<th>Male students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q₁</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q₃</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Which boxplot to the right is for the female students and which is for the male students?

3. Create a back-to-back stem and leaf display of the number of friends. (stem digit is hundreds; round number of friends in above table to nearest ten.)

<table>
<thead>
<tr>
<th>Female</th>
<th>Male</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>