Cricket chirps vs temperature

You can use this formula to see the relationship between temperature and chirps per minute

\[ y = x + 40 \]

\( y = \text{temperature in degrees Fahrenheit} \)
\( x = \text{cricket chirps per minute} \)

Fill in the table of values below and then draw the equation of the line on the graph.

<table>
<thead>
<tr>
<th>( x )</th>
<th>0</th>
<th>10</th>
<th>20</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>( y = x + 40 )</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>( (x, y) )</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\( y = \text{temperature in degrees Fahrenheit} \)

Use the graph to answer these questions:

1. What would the temperature be if there are 20 chirps per minute?
2. If the temperature was 80 °F, how many chirps per minute would there be?
3. Describe the relationship between temperature and chirps per minute