The total numbers of Hate Crime Incidents for the U.S. have been recorded below.

Data Source: [https://www.fbi.gov/about-us/cjis/ucr/ucr-publications#Hate](https://www.fbi.gov/about-us/cjis/ucr/ucr-publications#Hate) Hate Crimes Statistics, Incidents and Offenses, Table 1, Race

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Number of Incidents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1996</td>
<td>5396</td>
</tr>
<tr>
<td>1997</td>
<td>4710</td>
</tr>
<tr>
<td>1998</td>
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</tr>
<tr>
<td>2001</td>
<td>4367</td>
</tr>
<tr>
<td>2002</td>
<td>3642</td>
</tr>
<tr>
<td>2003</td>
<td>3844</td>
</tr>
<tr>
<td>2004</td>
<td>4042</td>
</tr>
<tr>
<td>2005</td>
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<td>2008</td>
<td>3992</td>
</tr>
<tr>
<td>2009</td>
<td>3199</td>
</tr>
<tr>
<td>2010</td>
<td>3135</td>
</tr>
<tr>
<td>2011</td>
<td>2917</td>
</tr>
<tr>
<td>2012</td>
<td>2797</td>
</tr>
<tr>
<td>2013</td>
<td>2871</td>
</tr>
</tbody>
</table>

1. Draw a scatter plot of the data.

![Scatter Plot]

2. Describe the strength and direction of the correlation between the year and number of incidents.

3. Find the linear regression model for the data to the nearest thousandth.

4. What does the slope in the regression model represent?

5. Use the linear regression model to predict the number of incidents in 2020.
The total numbers of Anti-Asian Hate Crime Incidents for the U.S. have been recorded in the table below.

Data Source: https://www.fbi.gov/about-us/cjis/ucr/ucr-publications#Hate Crimes Statistics, Incidents and Offenses, Table 1 Anti-API

<table>
<thead>
<tr>
<th>Year</th>
<th>Anti-Asian</th>
</tr>
</thead>
<tbody>
<tr>
<td>1996</td>
<td>355</td>
</tr>
<tr>
<td>1997</td>
<td>347</td>
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<td>2010</td>
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<td>2011</td>
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<tr>
<td>2012</td>
<td>121</td>
</tr>
<tr>
<td>2013</td>
<td>138</td>
</tr>
</tbody>
</table>

1. Draw a scatter plot of the data.

2. Describe the strength and direction of the correlation between the year and number of incidents.

3. Find the linear regression model for the data to the nearest thousandth.

4. What does the slope in the regression model represent?

5. Use the linear regression model to predict the number of incidents in 2020.