Graphing High Tides & Moon Phases

Name of City: ________________________________

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<tr>
<th>Date</th>
<th>AM</th>
<th>PM</th>
<th>Moon Phase</th>
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Directions:

1. Looking at the data above, add the dates to the x-axis of your graph
2. Add a title “Dates” to your x-axis
3. Draw the phases of the moon for each corresponding date
4. On the y-axis, add the increments for feet. Be sure to evenly space numbers.
5. On the y-axis, add the title - “Height of Water in Feet”
6. Using a red colored pencil, add the data points for the high tides for AM
7. Connect the data points using a smooth/wavy line
8. Using a blue colored pencil, add the data points for the high tides for PM
9. Connect the data points using a smooth/wavy line
10. Add a key to your graph

Analysis: Answer the questions below using your data chart and graph. Be sure to list the date, time of day (am/pm), feet, and moon phase in your answer as needed.

1. When did the highest high tide occur? When did the lowest high tide occur?
2. When did the largest difference in high tide occur on the same day?
3. When did the smallest difference in high tide occur on the same day?
4. Were Neap Tides or Spring Tides higher? Explain.
5. Were there any other patterns that you notice?
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Tides worksheet by Liz LaRosa
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