Questions/Instructions:
1. Use the table to plot points on the axes above. Connect the dots using a curved line, so that your graph looks like a wave.

2. Follow the pattern to fill in the empty spaces on the table, then add these points to your graph and connect the dots.

3. Put a star on each crest.

4. Put an X on each trough.

5. What is the wavelength (distance from crest to crest or trough to trough) of this wave? _____

6. At what value of x will your wave have another crest? _____

7. At what value of x will your wave have another trough? _____

8. If it only takes one second for your wave to travel from x = 0 to x = 16, what is the frequency (number of waves per second) of this wave? _____

Bonus:
Why do we see lightning before we hear thunder?