Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_

Graphing Practice

Using the following data, construct a graph that contains all of the essential elements listed in the lab format. Be certain to produce a neat, professional graph.

|  |  |
| --- | --- |
| Change in Length(cm) | Net Force (N) |
| 14 | 1 |
| 18.5 | 2 |
| 26.5 | 4 |
| 30 | 5 |
| 39 | 7 |
| 50 | 10 |
| 68 | 14 |
| 73 | 15 |
| 76 | 16 |
| 87 | 19 |

Describe the resulting graph. If possible, give an equation.

What is the value of the slope? Units?

Predict the change in length for the following values:

20 cm, 29 cm, 64 cm, 106 cm