Deliverable 06 – Worksheet

**Instructions:** The following worksheet is provided to you to help you organize your findings. Your job is to walk through the problems by showing how to solve each problem in detail. You are expected to explain all of the steps in your own words. You are given a **<please link to Deliverable 06 spreadsheet>**spreadsheet**</link>** that contains the following information:

* Magnitude measured on the Richter scale
* Depth in km

**Module 06 Problems**

1. Construct a scatterplot of the data and paste it below.

**Continue the solution:**

*Paste your scatterplot.*

1. Find the value of the linear correlation coefficient *r* and the critical value of *r* using α = 0.05.

**Answer and Explanation:**

*Enter your step-by-step answer and explanations here.*

1. Determine whether there is sufficient evidence to support the claim of a linear correlation between the magnitudes and the depths from the earthquakes.

**Answer and Explanation:**

*Enter your step-by-step answer and explanations here.*

1. Find the regression equation. Let the magnitude be the predictor (*x*) variable.

**Answer and Explanation:**

*Enter your step-by-step answer and explanations here.*

1. What would be the best predicted depth of an earthquake with a magnitude of 2.0? Is the equation a good model? Explain.

**Answer and Explanation:**

*Enter your step-by-step answer and explanations here.*