		Name:	
Stat 101 Summer 2022 Session 1	Activity 1-1	Number:	
Dr. Lily Yen	Show all your work	Signature:	
v		Score:	/7

Excel spreadsheet functions allowed

Problem 1: Use any calculator (application) to evaluate the following. Round your answers to 6 decimal places.

a.
$$\frac{\sqrt{3.17} - 11.8}{423.9 - 3.2^4} \approx$$
 $-0.031\,405$
b. $\left(\frac{15}{7}\right)^{2.14} - 31.4 \times \left(\frac{2}{11}\right)^{1.32} \approx$ $1.800\,227$
Score: /3

Problem 2: Open the spreadsheet for Activity 1 and answer the following questions.

a. List all variables and your best guess for each variable's description.

variable description

Variable (with corresponding descriptions): eth (ethnic group: African American or Native), sex (male or female), age (freshman F0, sophomore F1, junior F2, or senior F3), lrn (learning ability: slow learner (SL) or average learner (AL)), days (number of days absent in a specific academic year).

b. Which of the variables are categorical?

Categorical variables are *eth*, *sex*, *lrn*, and could be *age* when the values of the variables are F0, F1, F2 and F3 even though ages usually belong to numerical variables.

c. Was the data gathered from observational studies or experiments?

The data was gathered from observational studies because the students were not treated.

> Score: /4