Graphing Calculator Laboratory Worksheet

Directions: Use your calculator to do each of the following exercises. When you are finished bring your paper up to the lab assistant to check your answers. Any incorrect answers will have to be re-done.

1) Reset your calculator to its original factory settings.

2) Evaluate $\dfrac{131}{417} + \dfrac{56}{273}$ expressing the result as a single fraction.

3) What fraction is equivalent to the decimal 0.112211221122112211…?

4) Store the number –5.35 in the variable x. Now compute $\dfrac{x+1}{x}$ expressing your answer as a single fraction. Be careful, there is a difference between $x + \dfrac{1}{x}$ and $\dfrac{x+1}{x}$. How do you properly use parenthesis to make your calculator distinguish between the two expressions?

5) Store $\dfrac{7}{2}$ in the variable A. Store $-\dfrac{1}{3}$ in the variable B. Store $\dfrac{13}{21}$ in the variable C. Now compute each of the following expressing your results as fractions.
   a) $A^2 + B^2$
   b) $A * B * C$
   c) $A - B - C$
   d) B/C

6) Evaluate each of the following.
   a) π^5
   b) $\sqrt{3249}$
   c) -35 minus -41
   d) $(-8)^4$
   e) -5^3

7) Store the expression $\dfrac{1+\sqrt{5}}{2}$ in the variable x. Now calculate $x^2 - x + 3$.

8) Press the STAT key and press ENTER. How do you get back to the regular display screen?

9) Press CLEAR and type your first name on the display screen using the ALPHA key. After you are done press CLEAR once more. Without retyping your whole name what is a real fast an easy way to bring your name back up on the display screen?

10) Trick a classmate by making him/her think that something is wrong with their calculator by making the contrast/brightness as low as possible. Nice trick, but how do you get it back to normal?

11) Evaluate $5 - (1 - (1 - (1 - 4)))$.

12) Compute $\dfrac{15 - 2^4 + 3^2}{3 * 9 - 5^2}$.

13) Evaluate $\left(\dfrac{1}{5}\right)\left(\dfrac{15}{22}\right) \div \left(\dfrac{1}{11} + \dfrac{1}{33}\right) - \left(\dfrac{1}{3}\right)^2$

14) How do you make your calculator distinguish between $\sqrt{36 + 64}$ and $\sqrt{36} + 64$?