

TI-Nspire Scavenger Hunt

Precalculus

Name _____

1. The  button is similar to which button on the TI-83/84? _____
2. Ctrl and tapping which key darkens the screen tint? Which key lightens the screen tint?
3. Open a Calculator page in a new document( for new document).
What does the number in the top left corner tell us? _____
What does the number in the bottom right corner tell us? _____
4. Go to Tools ,  “Insert”,  “Problem” and add any application. What is the label at the top of this page? _____. How is this different than starting a “New Document”?
5. How do you move back to the first Calculator page that you have open?
6. What happens if you hit  and the up arrow on the NavPad? _____
Press  on Problem 2. The problem is now deleted. How can you get the problem back?
7. Choose the calculator screen that you already have open. Take the square root of 16 by using  16 and . How does the problem appear on your screen? _____
Now try the same problem with . When would you want to use  instead of ?
8. Find the 5th root of 100. What is the answer? _____ Notice the answer is given in exact form, simplified. Use  to obtain a decimal approximation of the answer?
9. Now try taking the 5th root of 100, but type a decimal point after 100 before typing .
10. Divide $2x + 6$ by 10 using the following keystrokes: .
Press . What is the answer? _____
Try the same problem again, but this time start with  and then enter the numerator and denominator. What is the advantage of using this second method?

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11. Change the Display Digits setting to 'Float 10' at the system level. (See part VII of the Primer document for help changing settings).

Give the decimal approximation of $\sqrt{5}$. _____

12. Clear all the entries on the calculator page. How did you do this? _____
How can you get back everything you've erased?

13. Go to  ("Tools"),  "File",  "Document Settings". Many of the document settings may not look familiar. In trigonometry, we will need to change the angle mode. Verify that the current document is in degree mode. If it is still in radian, change it to degree and press .

14. What does the Nspire give for the exact value of $\sin 240^\circ$. _____
What is the decimal approximation? _____

15. Now change the mode back to radians. Evaluate $\sin \frac{11\pi}{6}$. _____

16. Open a new Graphs & Geometry page and graph the function $y = x^2 + 10x - 13$.

a. Determine a window that includes all intercepts and the vertex:

Xmin: _____ Ymin: _____
Xmax: _____ Ymax: _____

b. State the coordinates of the vertex: _____

c. Use trace to find the value of y when $x = 12.2$. _____