## **EOC REVIEW – A variety of Calculator Functions**

CUBE ROOT, 4 <sup>th</sup> ROOT, etc In the calculator, Shift	GRAPHING ABSOLUTE VALUE, LOGARITHMS, etc In the calculator, Shift $4$ , scroll down to abs Graph $y =  x + 2 $	SIMPLIFYING LOGS WITH BASES OTHER THAN 10 In the calculator, F4, F2 from main screen menu   Simplify log <sub>3</sub> 27	SIMPLIFYING SYSTEMS OF MATRICES  In the calculator, Shift 4, 6 scrolltoke F4, F1, F3, 2, ent, 3, cn. type in values
Changing calculator from real to imaginary mode, and vice versa  In the calculator, Shift MENU, Scroll to complex mode a+bi  Simplify in the calculator $(2i-4)^2$	Graph $log_4 x$ MENU 5, SHIFT 4  Scroll down to log a b (  RADIANS AND DEGREES In the calculator, SHIFT MENU SCROLL to Angle  Find sec 45° and $\cos \frac{\pi}{4}$	PERMUTATIONS, COMBINATIONS, AND FACTORIALS In the calculator, OPTN F6 F3  Simplify 5! 10 C 3 10 P 3	Write a matrix to to represent the equations and solve the system $x - 2y = -10$ $-2x - 3y = -1$ MEAN, MEDIAN, MODE, RANGE, INTERQUARTILE RANGE, STANDARD DEVIATION In the calculator,  Menu 2 enter in 41  F2 F1  Find the mean, median,
	Find sec 43 and cos 4		etc for 98, 87, 79, 82, 101, 99, 97, 97, 102, 91, 93

**Independent Practice CALCULATOR FUNCTIONS assignment. Complete your assignment** on a separate sheet. Show all work.

Simplify in the calculator!

1. 
$$(7+3i)^2$$

2. 
$$(2i-3)(4i+3)$$
 3.  $\sqrt{-68}$  4.  $\log_4 64$  -17-6 i 2 $i\sqrt{17}$  3

3. 
$$\sqrt{-68}$$

7. 
$$_{12}C_4$$
 8.  $_{17}P_5$  9.  $\cos 60^{\circ}$  10.  $\csc \frac{\pi}{2}$ 

Graph each of the following in the calculator

11. 
$$y = -x^2 - 2x + 5$$
 12.  $y = -|x| - 2$  13.  $\log_3 x$ 



12. 
$$y = -|x| - 2$$





Write a matrix to represent the system of equations and then solve the system in the calculator.

14. 
$$-x + 5y - 4z = 0$$

$$3x + 4y + z = -1$$

$$-3x + 6y - 7z = 2$$

$$x + 3z = 12$$

$$y = -5x + 1$$

$$\left(\frac{15}{47}, \frac{-28}{47}, \frac{183}{47}\right)$$

16. Use the calculator to find the mean, median, mode, range, interquartile range, standard 79 deviation and variance for 73 77 79 74 81 74 70 68 70 72

$$\bar{\chi} = 74.3 \, (mean)$$

6x = 3.88 (standard deviation)