CALCULATOR COMMANDS, CONTENT & FAQs

REMEMBER: Your calculator is reset prior to the exam! It is automatically set to RADIAN mode and DIAGNOSTICS are turned OFF by default. You will want to remedy this immediately upon receiving the calculator after it is reset. Press mode, press twice, then press and then enter to put calculator into DEGREE mode (you'll want to use this mode for most every situation except a trig graph where radians are used). To turn diagnostics on, press and (Catalog) then until you find DiagnosticOn, press enter twice (it will display DONE).

STATISTICS: To find mean, standard deviations (and variances), and regressions, enter the data into [L1] and if necessary [L2] by pressing statl and enter (EDIT).

Once the data is entered, press statl and ▶ (CALC), then select the particular operation needed: 1: 1-Var Stats (for mean, standard deviation and interquartile range), 4: LinReg (ax+b) (for linear regression and/or correlation coefficient), 5: QuadReg (for quadratic regression), 9: LnReg (for logarithmic regression), 0: ExpReg (for exponential regression), or A: PwrReg (power regression). With the updated operating system, you can store the regression into a y-variable by pressing ▼ to Store RegEQ, press VARS, ▶ (Y-VARS), and enter twice.

For 1-variable stats, remember \overline{X} is the mean, σx is the population standard deviation, sx is the <u>sample</u> standard deviation (to only be used when "sample" is indicated), and variance is the square of the standard deviation. To calculate the population variance after you compute 1-var stats, press \overline{VARS} , $\overline{\ }$ to 5: Statistics, <u>enter</u>, $\overline{\ }$ to 4: σx , and then press $\overline{x^2}$.

PROBABILITY: To calculate combinations, permutations, or factorials, enter the value of n, press MATH, \P , and then \P to either 2: nPr (permutation - order matters); 3: nCr (combination - order doesn't matter), or 4: ! (factorial). Then enter the value or r and press enter (for permutations or combinations), or press enter to calculate factorial. Binomial probability ($_nC_r \cdot p' \cdot q'''$) can be found by using the binompdf feature in DISTR menu (press 2nd and VARS), then \P to A:

binompdf). This brings up a pop-up menu in the new OS. You will enter in n, p, and r at each line in the menu, and then select Paste and press enter. NOTE- this is for calculating an exact number for r, not for at least r or for at most r.

GRAPHING: To enter a function for graphing, press \P . To view a pre-assigned window, press 200 and select one of the following: 6: ZStandard for basic graphs (-10 to 10 in each direction), ZTrig for trig equations (-360 to 360 in x, -5 to 5 in y), or ZoomStat for regressions. To create a table of values, press 200 and 200 (tblset), enter a starting x-value for TblStart, press and enter an increment for x to change by in Δ Tbl, and then press 200 and 200 and

TRIG: All calculations using Law of Sines/Cosines should be done using DEGREE mode (unless specifically identified as radians). To enter degrees, minutes, and seconds, enter the number of degrees, press 2nd and apps (angle menu) then enter (for o symbol), enter the number of minutes, press 2nd and apps (angle menu) then and enter (for minute symbol of other (if necessary) enter the number of seconds, press alpha and of the (for seconds symbol of other other other other angle menu is the command to covert a decimal number of degrees to degrees, minutes and seconds. After the decimal is found on the calculator, press 2nd and apps (angle menu) then to 4: DMS then pressenter. To utilize secant, cosecant, or cotangent, you need to first press 1 and of the cos, sin, or tan.