

Senior Equations® Variations 2018-19

All the Junior variations for this year plus the following:

11. Imaginary | (sideways minus) shall represent the imaginary number i (such that $i^2 = -1$). | may be placed immediately before or after a numeral without the x sign. When this variation is selected, all roots of a^b , where a is a complex number and b is a rational number, are available. **Each Equation-writer must write i in the Equation (Solution and/or Goal) for the Imaginary unit.** Note: This variation may be chosen even if no $-$ signs (or wild cubes) are in Resources.
12. Decimal in Goal Each Equation-writer may determine where decimal points occur in the Goal. **Three consecutive digits may be placed in the Goal, but a decimal point must be placed in front of them, between two of them, or after the third digit in the Goal of any Equation.**
13. Log · (sideways ÷) represents the log operation. Thus, if a and b are positive real numbers ($b \neq 1$), $a \cdot b$ equals $\log_b a$.

DO NOT MARK THIS SHEET!