

<b>Senior Equations® Variations 2008-9</b>
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All the Junior variations for this year plus the following:

11.  $\sqrt{\phantom{x}} = i \sqrt{\phantom{x}}$  shall not represent the root operation but instead may represent the imaginary number  $i$  (such that  $i^2 = -1$ ). The  $\sqrt{\phantom{x}}$  may be placed immediately before or after a numeral without the  $x$  sign.
12. Decimal in Goal Each Equation-writer may determine where decimal points occur in the Goal.
13. Log A sideways  $\div$  represents the log operation. Thus if  $a$  and  $b$  are positive real numbers ( $b \neq 1$ ),  $a \div b$  equals  $\log_b a$ .

**DO NOT MARK THIS SHEET!**