how many electors changed their minds during the year?

Let 110 denote B's gain and A's loss the first year; then $110 \times 1\frac{4}{5} = 198 = A$'s gain the second year. Then 198; 110 :: 9:5, and 198 - 110 = 88 who have changed there minds at the second election. This question admits 36 solutions clear of fractions, giving as many sets of answers; and the majorities change 36 times from 10 to 360 included.

139. A owes B \$1000, and agrees to pay him in ten equal annual instalments, at a rate per cent, simple interest, equal to the TRUE equated time for all the payments : how much must B receive annually?

Let x = the rate = time; then $x^2 =$ int. on each payment, and $100 + x^2 =$ each annual payment. The most correct method of finding the equated time is, when the interest of the sums payable *before* the equated time, from the times when they are due till that time, should be equal to the discount of the sums payable *after* the equated time for the intervals between that time and the times at which they are due. Then, when x is the