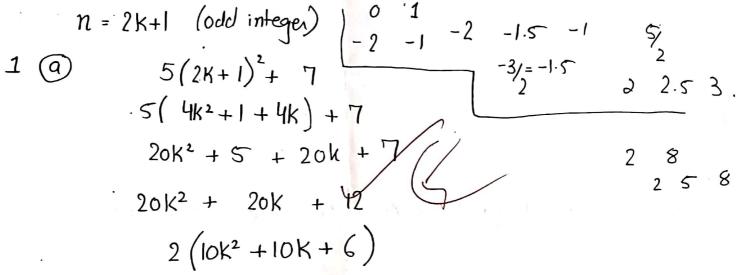


- 1) Determine whether the statement is true or false. Justify your answer with proof or a counterexample, as appropriate
 - a) For every odd integer n, $5n^2 + 7$ is even.
 - b) For all real numbers a and b, if a < b then $a < \frac{a+b}{2} < b$.



10k² + 10K + 6 is an integer because it is sum and product of integers so 2. (any integer) is even hence statement is true

