

1. 28c) page 357. You must show that $n(n + 1) + .25 = (n + .5)^2$.
LHS= $n^2 + n + .25$.
RHS= $n^2 + 2n(0.5) + 0.5^2 = n^2 + n + .25$.
So LHS=RHS.
2. 11) page 368. A repeating decimal is a fraction and because of the closure property, adding two fractions yields another fraction. Thus, adding two repeating decimals is adding two fractions which is a fraction which is a repeating decimal.