

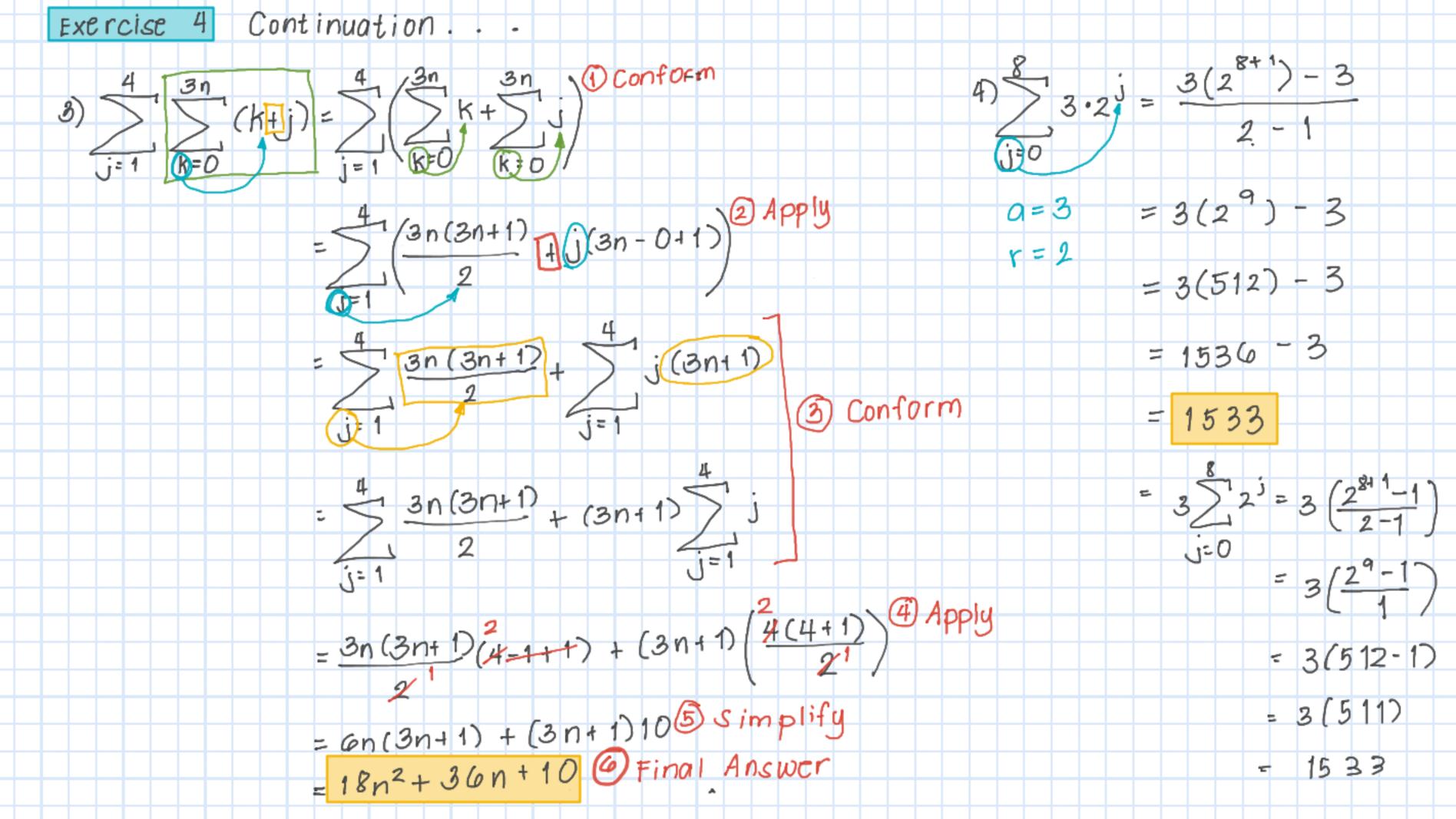
$$= \frac{(2(n)(n+1)(2n+1)-12)}{3} + \frac{((n+1)(n+1)-12n)}{3} + \frac{(n+1)}{3}(n-1)$$

$$= \frac{n(2(n+1)(2m+1) + Gn(n+1)(12+3n(n-1))}{3} - 12$$

$$= \frac{n((n+1)(2(2n+1) + Gn) - 12 + 3n(n-1))}{3} - 12$$

$$= \frac{n((n+1)(10n+2)-12}{3} + \frac{3n^2(-3n)}{3} - 12$$

$$= \frac{13n^3 + 9n^2 - 10n - 12}{3}$$
Alternative for number 2.



$$\sum_{j=1}^{n} \sum_{k=1}^{n} \frac{1}{j+1} + \sum_{j=1}^{n} \frac{1}$$