Vi har summationsformeln

$$\sum_{i=1}^{n} i = \frac{n(n+1)}{2}$$

och

$$\sum_{i=1}^{n}(i-1) = \frac{n(n-1+1-1)}{2}$$

Stegen som utelämnats i lösningarna blir då:

$$I_{min} = \sum_{i=1}^{n}(1{+}4(i{-}1){-}2)\frac{4}{n} = \sum_{i=1}^{n}(-1)\frac{4}{n}{+}\sum_{i=1}^{n}\frac{4(i-1)}{n}\frac{4}{n} = -4{+}\frac{4n(n-1)}{2n}\frac{4}{n} = -4{+}8{-}\frac{8}{n} = 4{-}\frac{8}{n}$$

$$I_{max} = \sum_{i=1}^{n}(1{+}4(i){-}2)\frac{4}{n} = \sum_{i=1}^{n}(-1)\frac{4}{n}{+}\sum_{i=1}^{n}\frac{4(i)}{n}\frac{4}{n} = -4{+}\frac{4n(n+1)}{2n}\frac{4}{n} = -4{+}8{+}\frac{8}{n} = 4{+}\frac{8}{n}$$