

Comments

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If you think about it, suppose your age is x and mine is y . Then

$$\lim_{n \rightarrow \infty} \frac{x+n}{y+n} = 1$$

Why? Suppose that you are 10 years old ($x = 10$) and I am 20 years old ($y = 20$). Then at year 0 (now, $n = 0$), then $\frac{x+n}{y+n} = \frac{10+0}{20+0} = \frac{1}{2} = 0.50$. Now, in 10 years ($n = 10$) $\frac{x+n}{y+n} = \frac{10+10}{20+10} = \frac{20}{30} = \frac{2}{3} = 0.67$. In 100 years ($n = 100$) $\frac{x+n}{y+n} = \frac{10+100}{20+100} = \frac{110}{120} = \frac{11}{12} = 0.92$. In 1000 years, $\frac{1010}{1020} = 0.99$. When $n = \infty$ (asymptotically or "in the limit"), $\frac{x+\infty}{y+\infty} = 1$.

Long story short: Given enough time we're all the same age.