

## Five Paradoxes and a General Question on Time Traveling

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These are five paradoxes on time traveling, which come from Neutrosophy and Neutrosophic Logics applied to the theory of relativity.

### 1 Traveling to the past

Joe40, who is 40 years old, travels 10 years back to the past when he was 30 years old. He meets himself when he was 30 years old, let's call this Joe30.

Joe40 kills Joe30.

If so, we mean if Joe died at age 30 (because Joe30 was killed), how could he live up to age 40?

### 2 Traveling to the future

Joe30, who is 30 years old, travels 10 years in the future and meets himself when he will be 40 years old, let's call him Joe40.

Joe40 kills Joe30.

At what age did Joe die, at 30 or 40?

If Joe30 died, then Joe40 would not exist.

### 3 Traveling pregnant woman

a) A 3-month pregnant woman, Jane3, travels 6 months to the future where she gives birth to a child Johnny3.

b) Then she returns with the child back, and after 1 month she travels 5 months to the future exactly at the same time as before.

Then how is it possible to have at exactly the same time two different situations: first only the pregnant woman, and second the pregnant woman and her child?

### 4 Traveling in the past before birth

Joe30, who is 30 years old, travels 40 years in the past, therefore 10 years before he was born.

How is it possible for him to be in the time when he did not exist?

### 5 Traveling in the future after death

Joe30, who is 30 years old, travels 40 years in the future, 10 years after his death. He has died when he was 60 years old, as Joe60.

How is it possible for him to be in the time when he did not exist any longer?

### 6 A general question about time traveling

When traveling say 50 years in the past [let's say from year 2010 to year 1960] or 50 years in the future [respectively from year 2010 to year 2060], how long does the traveling itself last?

If it's an instantaneous traveling in the past, is the time traveler jumping from year 2010 directly to year 1960, or is he continuously passing through all years in between 2010 and 1960? Similar question for traveling in the future.

If the traveling lasts longer say, a few units (seconds, minutes, etc.) of time, where will be the traveler at the second unit or third unit of time? I mean, suppose it takes 5 seconds to travel from year 2010 back to year 1960; then in the 1st second is he in year 2000, in the 2nd second in year 1990, in the 3rd second in year 1980, in the 4th second in year 1970, and in the 5th second in year 1960? So, his speed is 10 years per second?

Similar question for traveling in the future.

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