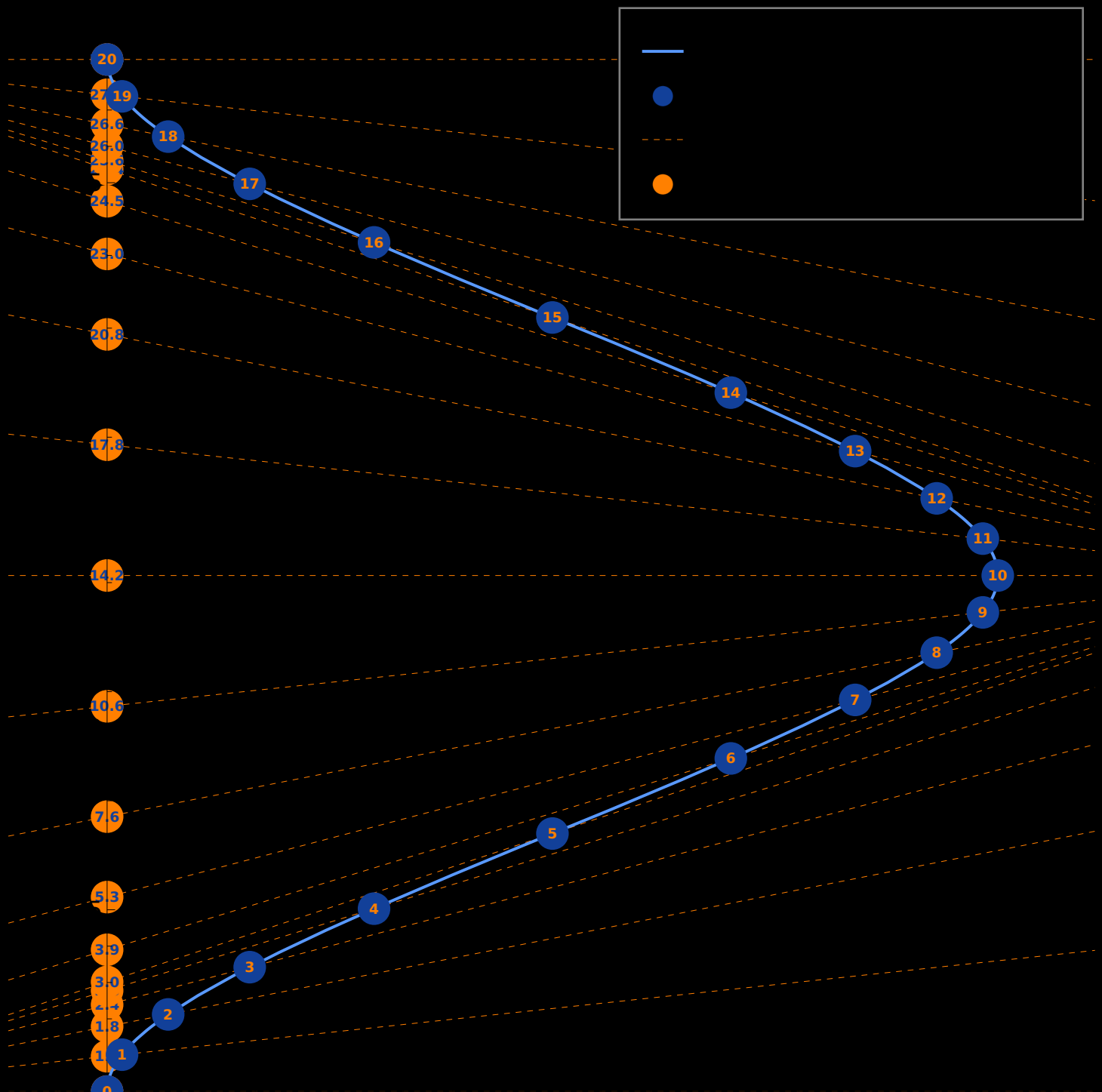


# The Twin (Quasi)Paradox



Traveler's proper time  $\tau$  (their clock) vs stay-at-home inertial time  $t$ .

Trajectory: accelerate out, flip, then return while decelerating/accelerating.

$0 \leq \tau < 5$  yr:  $+0.3 \text{ ly/year}^2$  ( $\approx 0.29 \text{ g}$ )

$5 \leq \tau < 15$  yr:  $-0.3 \text{ ly/year}^2$  ( $\approx -0.29 \text{ g}$ )

$15 \leq \tau < 20$  yr:  $+0.3 \text{ ly/year}^2$  ( $\approx 0.29 \text{ g}$ )

After 20 years of the traveller's proper time, the twins are reunited and in the same reference frame.

The stay-at-home twin has aged by 28.39 years, and is 8.39 years older.

**Caveat: this "inferred" stay-at-home age while away depends on the traveler's notion of simultaneity.**

**Relativity has no global now, only local here-and-now.**