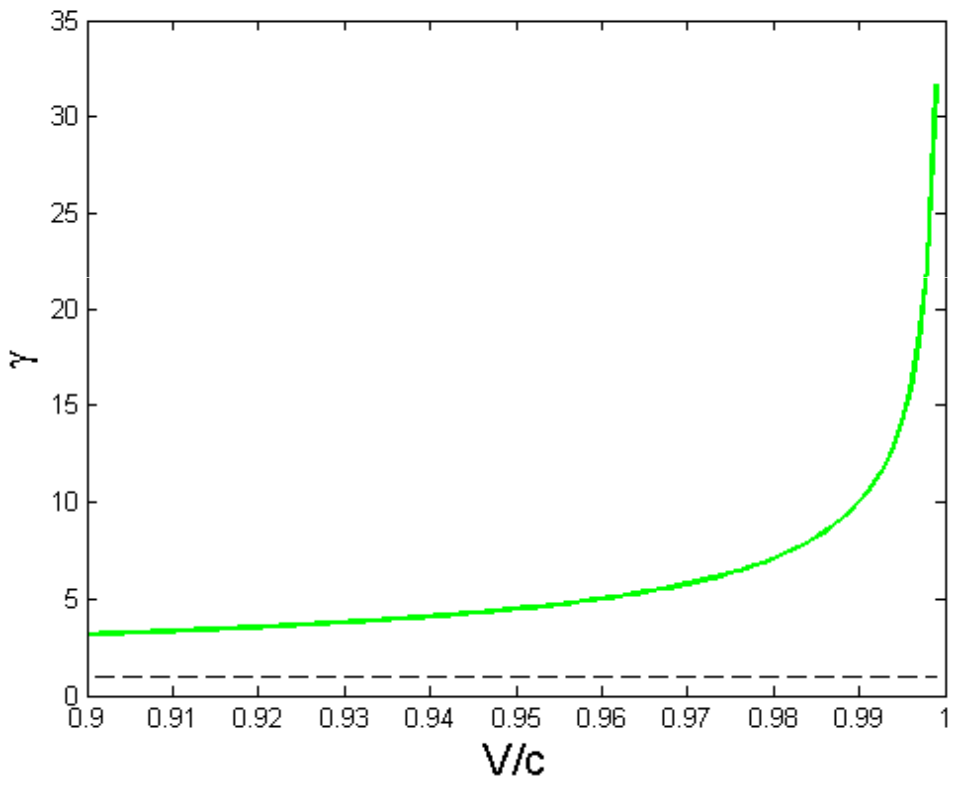
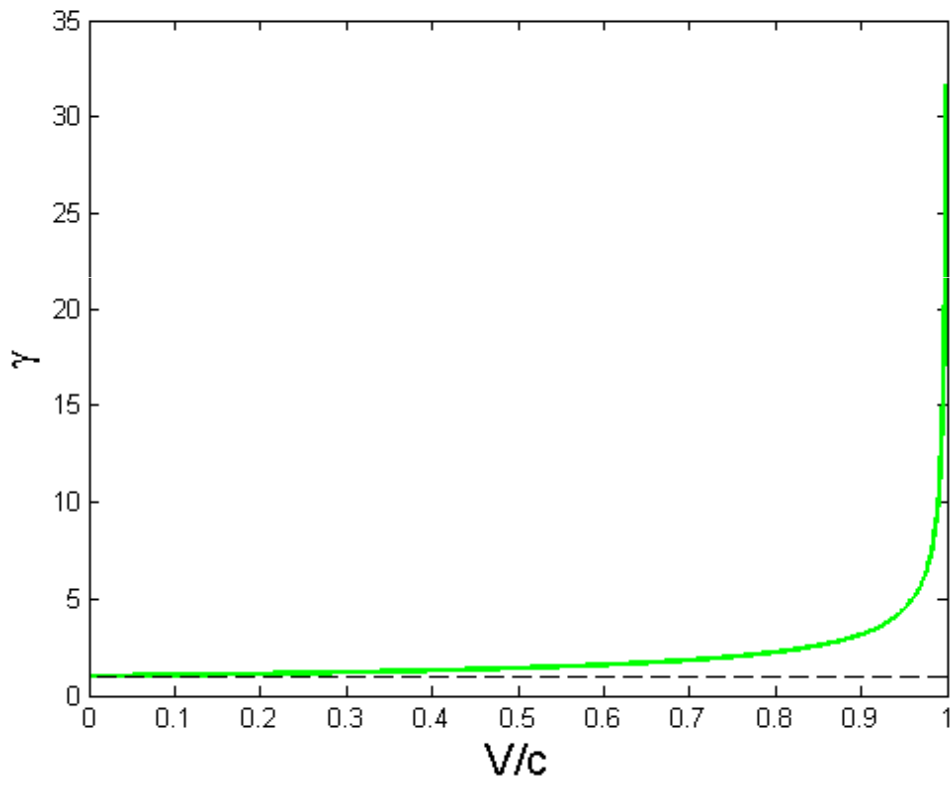


$$\gamma = \frac{1}{\sqrt{1 - \frac{v^2}{c^2}}}$$



A spaceship is traveling past the earth at nearly the speed of light. The crew on board watches 1 minute elapse on a stop watch. From earth, if we could see the stop watch, how long did it take for the watch to elapse 1 minute?

a) 1 minute.

b) Less than 1 minute.

c) More than 1 minute.

Non-Relativistic

In the 'muon experiment,' will special relativity predict a difference in the ratio of muons that reach the ground, as compared to non-relativistic calculations?

- a) Special Relativity will predict more muons reach the ground.
- b) Special Relativity will predict the same number of muons reach the ground.
- c) Special Relativity will predict less muons reach the ground.

