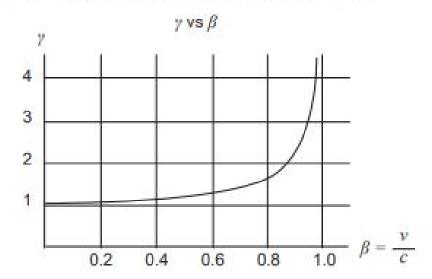
The Lorentz transformation equation for total relativistic energy states

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

This can be simplified to  $E = ymc^2$  where

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

With reference to the graph of  $\gamma$  vs  $\beta$  ( $\nu$ /c) and the equation for relativistic energy, explain why it is impossible for any particle with mass to achieve the speed of light.



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