Tatorial shut - 6- shutton

Pryeries - 1 (18811 PM 1811) 000 2021

A2.

$$m_1 = \log_1 = \log_1 + \log_2 + \log_2$$

```
since cix + ux => velocity is variant
             frac. diff of 100 w. r. to to
                   The start of as win constant
                     az = ax circularly ay = ay, az = az
               - this shows acceleration is invariant cerder GN transformation
Q.5 - Croular lamina (in motion along x or yaxio) affects as an
     ellipse to a stationary observer in frames. Consider d is the
     diameter of the circle and motion is along x axis - the diameter
      d get contracted along a axio such that dz = d 1 - 22
     Now the area of ellipse thus formed is
                              Ac = 不好如何下些 = 对了些
     for observer of frame s. the area of circular lamina is

According to question.

Ae = Ac/2
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Ae = Ac/2 = (Td^2)/2 = \sqrt{-U^2} - \frac{1}{2} \Rightarrow U = \frac{3}{4}c^2
                  V= 3c = 2.6×108 m s.
 8.6. V=08C, Component of the lighth along the directions
              & serto the direction of motion is refectively
                 Lx = 6 60 60 = 10 & Ly = 6 sin 60 = 13 10
        length Combaction along the direction of motion
                          Lx = 12/1-(0:85)2 = 0:310. N
      So Longth of the rod L' = \(\sum_{12}^2 + \sum_{14}^2\) as no change in its direction.
                           L'= \( \left( 0.3 Lo)^2 + \left( \frac{3 Lo}{2} \right)^2 = 0.917 Lo
           Length Compaction (%) = 1-0.917 ×100 = 8:3%
```

Bit. As clock local 1 min in 1 hour. So there will be 54 min in each four.

B.B. At rest - that = 17.8 × 18 s. , V = 0.8C