

## Answer on Question #62328, Physics / Mechanics | Relativity

A garage mechanic uses a stroboscope to equilibrate a wheel. By decreasing the frequency of flashes, he observes that the wheel appears stationary for frequencies 60 Hz, 30 Hz, 20 Hz,... Calculate the frequency of the wheel.

**Solution:**

By decreasing the frequency of flashes, the wheel appears stationary for frequencies 60 Hz, 30 Hz, 20 Hz. The "truth or real" frequency wheel has of several multiple frequencies  $\frac{1}{2}f$  and  $\frac{1}{3}f$ .

Thus, the wheel rotates with a frequency of 60 Hz.

**Answer: 60 Hz.**

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