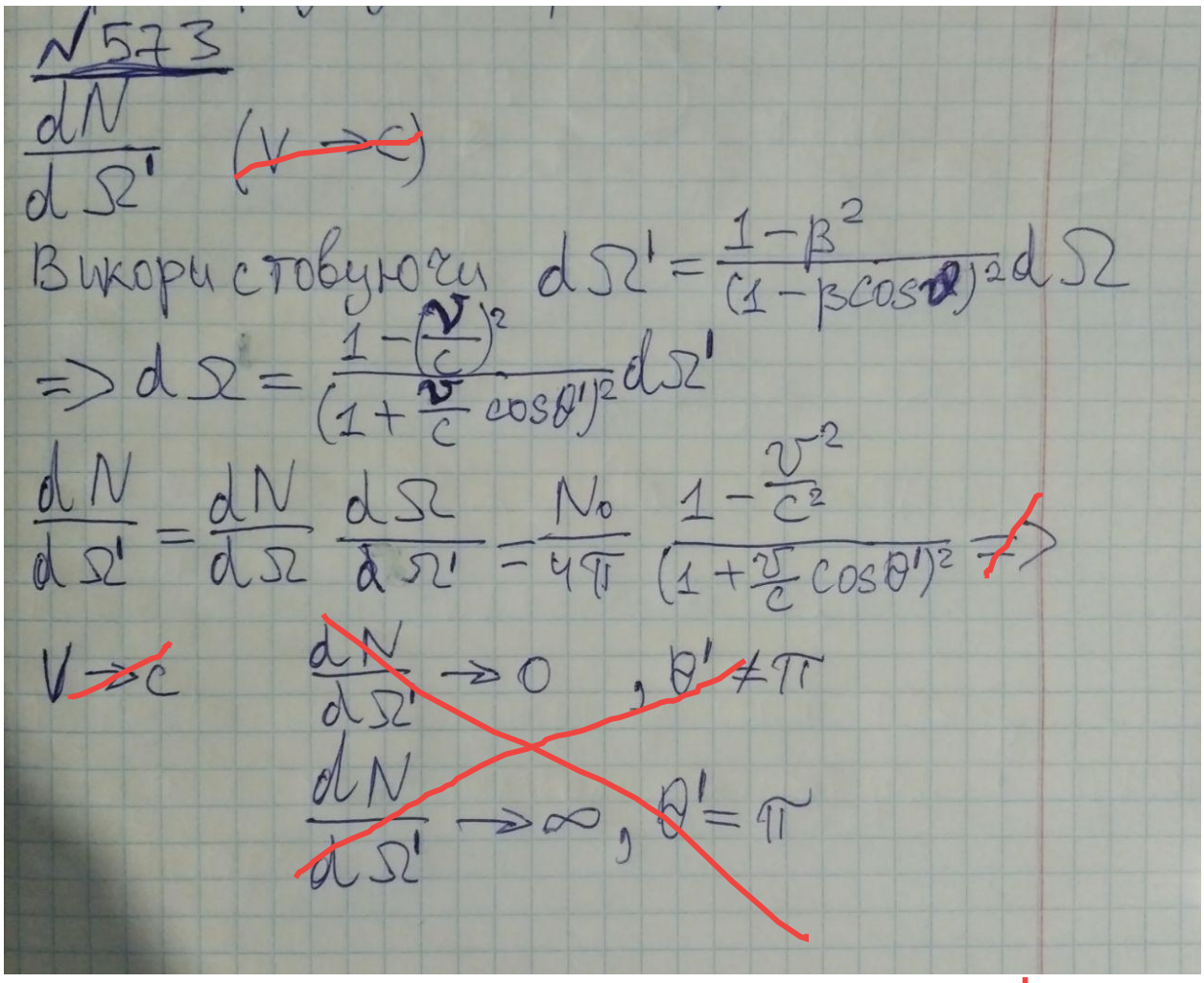

$$x = \gamma(x' + v t') \qquad t = \gamma\left(t' + \frac{v x'}{c^2}\right)$$

$$\frac{x}{ct} = \frac{\gamma(x' + v t')}{c\gamma\left(t' + \frac{v t'}{c^2}\right)} \to \cos\theta = \frac{\cos\theta' + \beta}{1 + \beta\cos\theta'}$$

$$d\Omega = \sin\theta\, d\theta\, d\alpha = -d(\cos\theta)\, d\alpha =$$

$$= -d\left(\frac{\cos\theta' + \beta}{1 + \beta\cos\theta'}\right) d\alpha' =$$

$$= \left[\frac{\sin\theta' d\theta'}{1 + \beta\cos\theta'} - \frac{(\cos\theta' + \beta)\sin\theta'\beta\, d\theta'}{(1 + \beta\cos\theta')^2}\right] d\alpha' =$$

$$=$$