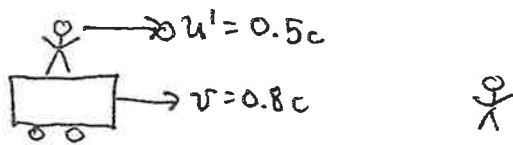


EX 31.2

Relativistic velocity addition



$$u = \frac{u' + v}{1 + \frac{u'v}{c^2}} = \frac{(0.5c) + (0.8c)}{1 + \frac{(0.5c)(0.8c)}{c^2}} = \frac{1.3c}{1 + \frac{0.4c^2}{c^2}}$$

$$u = \frac{1.3c}{1.4} = \boxed{0.93c}$$