

$$4.44t - \frac{(4.44)^2}{2a} = 8.23$$

$$8.89t - \frac{(8.89)^2}{2a} = 19.2$$

$$4.44t - 8.23 = \frac{4.44^2}{2a}$$

$$8.89t - 19.2 = \frac{(8.89)^2}{2a}$$

reaction time t :

or 1.55s

Brake a : -7.3

$$\frac{4.44t - 8.23}{8.89t - 19.2} = 0.25$$

$$4.44t - 8.23 = 2.22t - 4.8$$

$$2.22t = 3.43$$

$$t = 1.55$$

$$4.44(1.55) - \frac{4.44^2}{2a} = 8.23$$

$$\frac{-4.44^2}{2a} = 1.35$$

$$a = -7.3$$