

> Usain Bolt Average Acceleration during run start for 2009 world record 100m sprint

Error, missing operator or `;`

```
>
>
>
>
> vav := 10.438
vav := 10.438 (1)
```

```
> vmax := 12.42
vmax := 12.42 (2)
```

```
> TT := 9.58
TT := 9.58 (3)
```

```
>
>
>
> eq1 := vav =  $\left(\frac{vmax}{TT}\right) \cdot \left(TT - \left(\frac{vmax}{a0}\right) \cdot \ln\left(1 + \left(\frac{a0 \cdot TT}{vmax}\right)\right)\right)$ 
eq1 := 10.438 = 12.42000000 -  $\frac{16.10192066 \ln(1 + 0.7713365539 a0)}{a0}$  (4)
```

```
> solve(eq1, a0)
24.20129792 (5)
```