

Find:

Solution:

Plot the velocity

What is v(t) between 0 and 12 s?

v(t) =

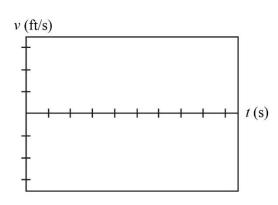
What is v(t) between 12 and t's?

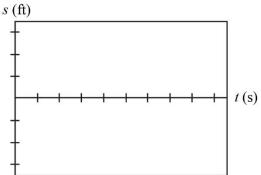
v(t) =

 $v_{t=12 \text{ s}} = 72 \text{ ft/s}$

Determine the stop time.

t ' = _____





Plot the position

What is s(t) between 0 and 12 s?

What is s(t) between 12 and t's?

$$s(t) =$$

 $s_{t=12 \text{ s}} = 432 \text{ ft}$

$$c(t) =$$

$$s_{t=30 \text{ s}} = 1468.8 \text{ ft}$$