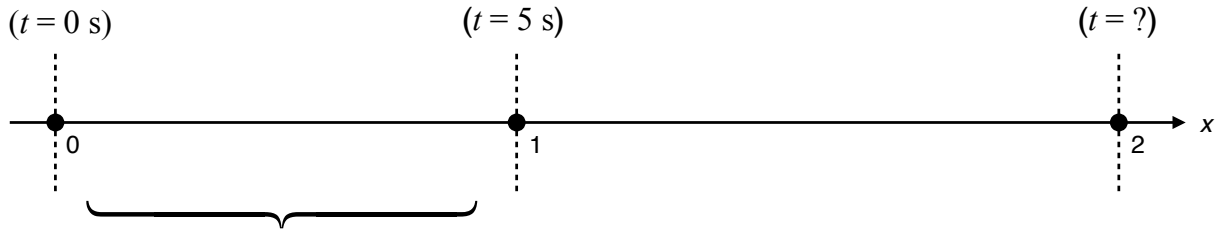


Loaded Wagon

A tractor pulls a loaded wagon of mass $m = 275 \text{ kg}$ on a level road with constant horizontal force $F_p = 440 \text{ N}$. There's a frictional force $f = 100 \text{ N}$ opposing its motion. After 5 second, the tractor releases the wagon. What is the total displacement of the wagon, if it was initially at rest?



$$\Delta s = s_1 - s_0 =$$

$$v_i =$$

$$v_f =$$

$$a =$$

$$\Delta t =$$

Weight of an Object

A rock is in free fall motion. Use Newton's Second Law to derive an expression for the weight of an object (in terms of the mass)?

Recall:

The weight of an object is the magnitude of the gravitational force F_G on it.

