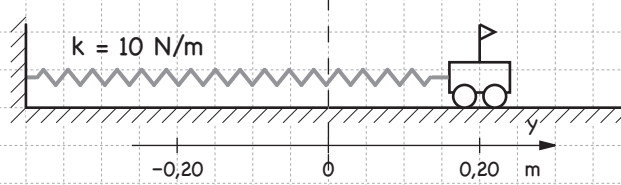


# Harmonisk oscillator (krafter 1)

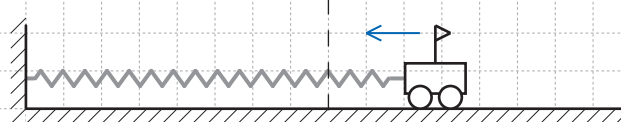
Namn: \_\_\_\_\_

Nedan visas ett exempel på en harmonisk oscillator. Rita i situation (1)–(9) nedan ut resultanten till de krafter som verkar på vagnen (som rullar utan friktion). (Låt 1 cm motsvara 1 N.)

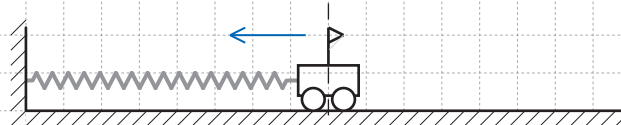
1.  $t = 0$ :  $y = 0,20$  m



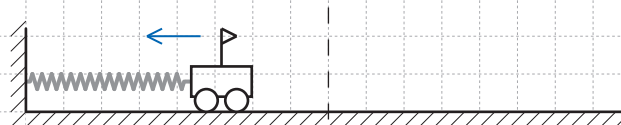
2.  $t = T/8$ :  $y = 0,14$  m



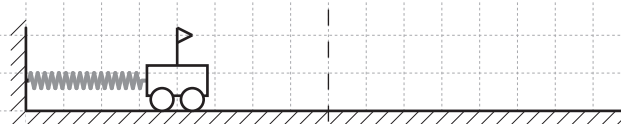
3.  $t = 2T/8$ :  $y = 0$



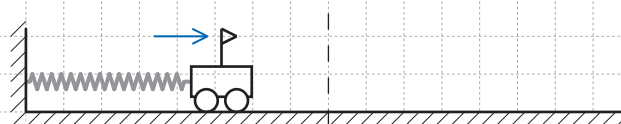
4.  $t = 3T/8$ :  $y = -0,14$  m



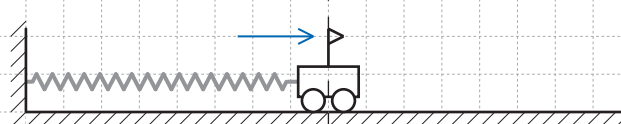
5.  $t = 4T/8$ :  $y = -0,20$  m



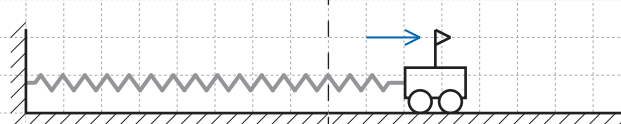
6.  $t = 5T/8$ :  $y = -0,14$  m



7.  $t = 6T/8$ :  $y = 0$



8.  $t = 7T/8$ :  $y = 0,14$  m



9.  $t = 8T/8$ :  $y = 0,20$  m

