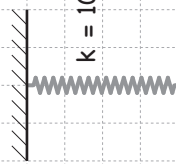
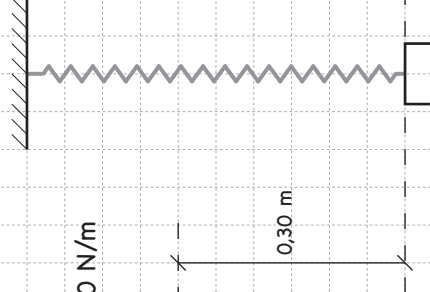
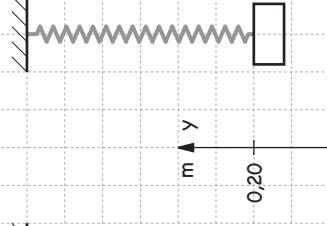
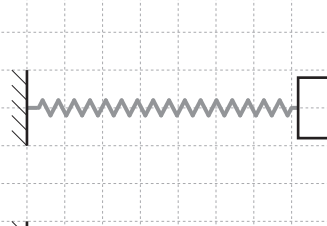
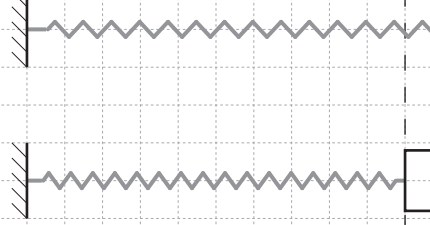
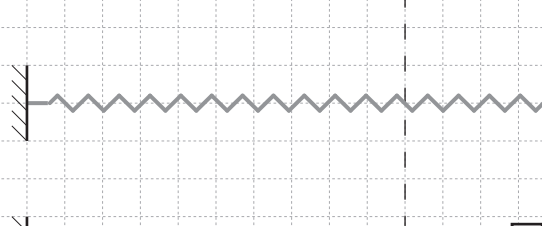
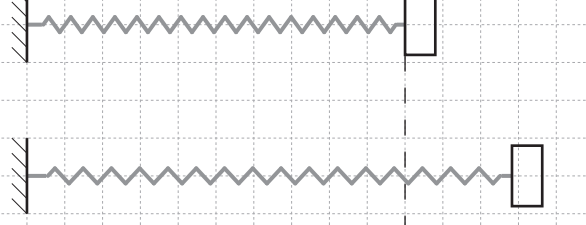
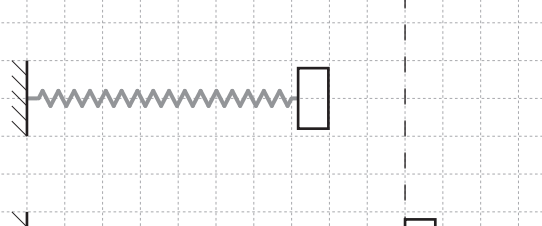
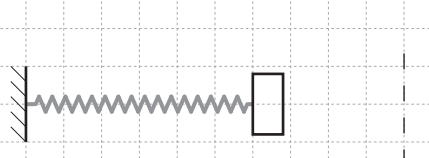
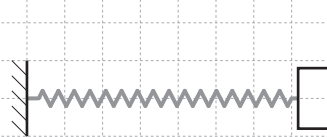
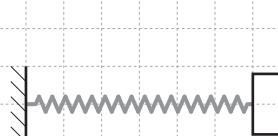


Harmonisk oscillator (krafter 2)

Nedan visas ytterligare ett exempel på en harmonisk oscillator, en vikt med tyngden 3,0 N som hängs i en fjäder och sedan släpps. Rita i situation (0)-(9) nedan ut de krafter som verkar på vikten och ange resultanten till dessa krafter. (Låt 1 cm motsvara 1 N.)

<p>Fjädersn utan vikt:</p>  <p>$k = 10 \text{ N/m}$</p>	<p>0. Vikt hängs i fjäder. Nytt jämviktsläge:</p> 	<p>1. $t = 0:$ $y = 0,20 \text{ m}$</p> 	<p>2. $t = T/8:$ $y = 0,14 \text{ m}$</p> 	<p>3. $t = 2T/8:$ $y = 0$</p> 	<p>4. $t = 3T/8:$ $y = -0,14 \text{ m}$</p> 	<p>5. $t = 4T/8:$ $y = -0,20 \text{ m}$</p> 	<p>6. $t = 5T/8:$ $y = -0,14 \text{ m}$</p> 	<p>7. $t = 6T/8:$ $y = 0$</p> 	<p>8. $t = 7T/8:$ $y = 0,14 \text{ m}$</p> 	<p>9. $t = 8T/8:$ $y = 0,20 \text{ m}$</p> 
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