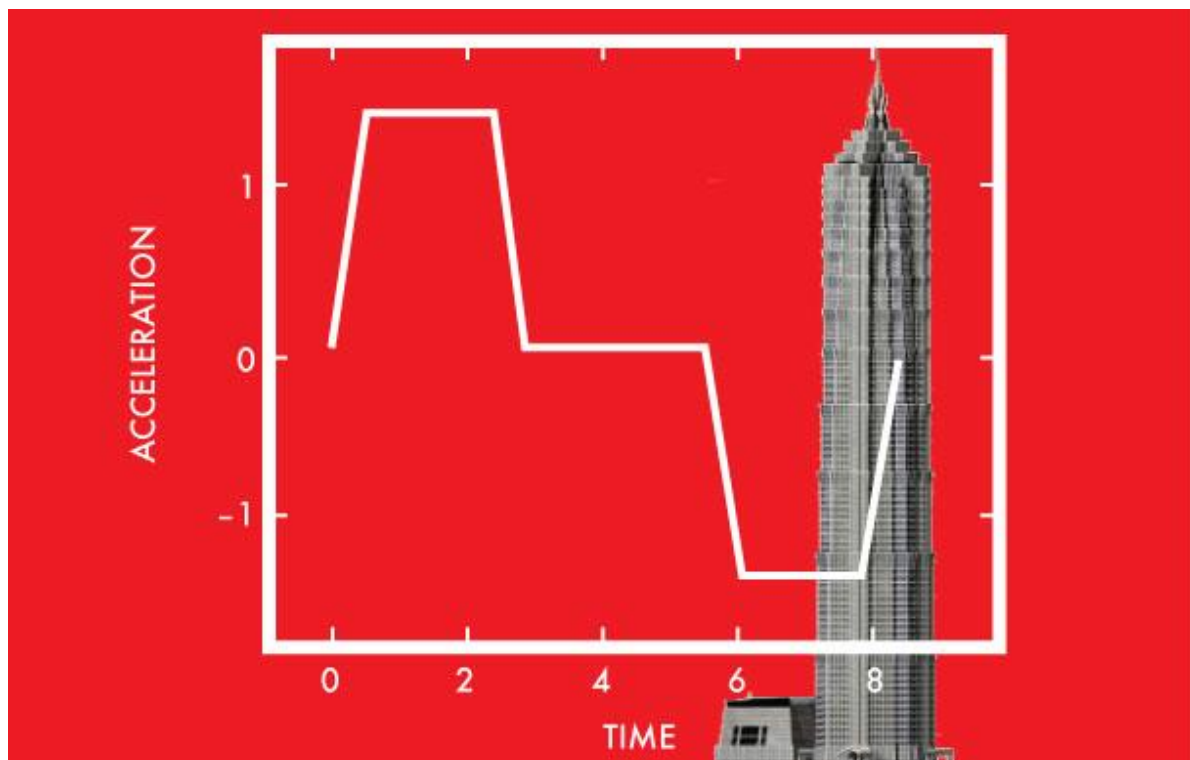
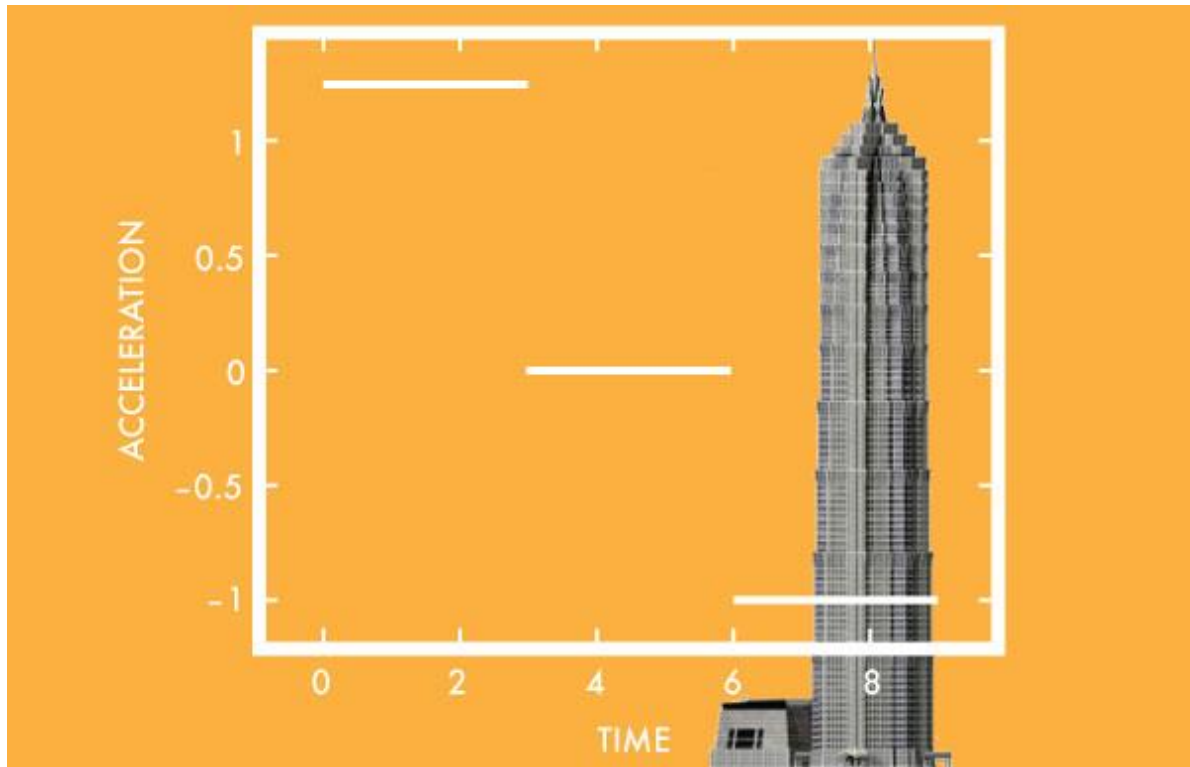


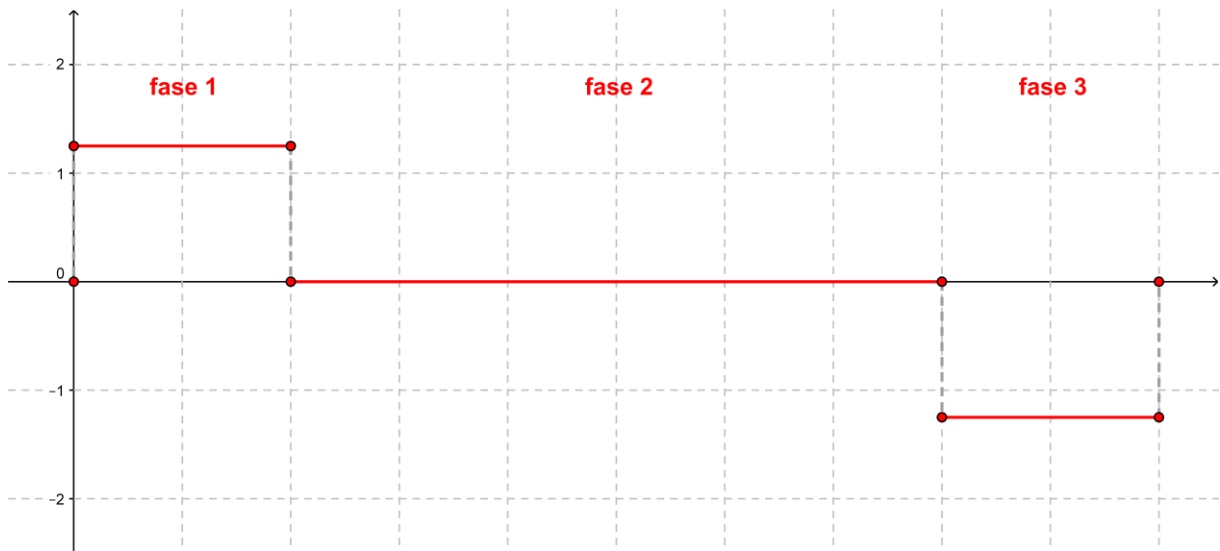
Workshop De derde afgeleide, NWD 2016, 5 februari 2016

## Werkblad

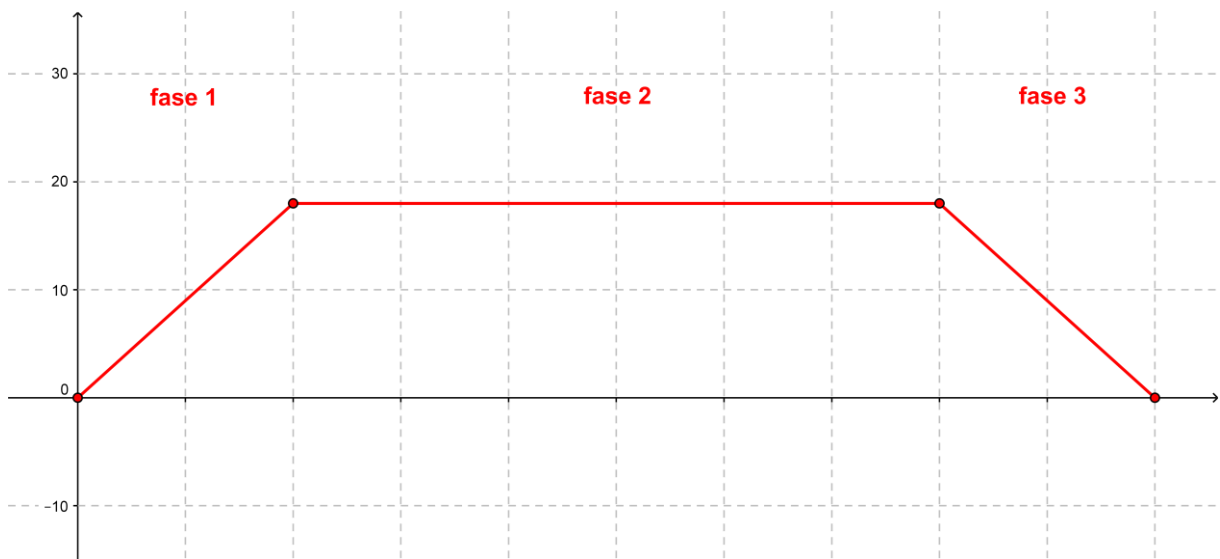


# Deel 1: zonder jerk

Versnelling:



Snelheid:



Opgaven, zonder jerk:

1. ..

2. ..

3. ..

4. ..

1. ..

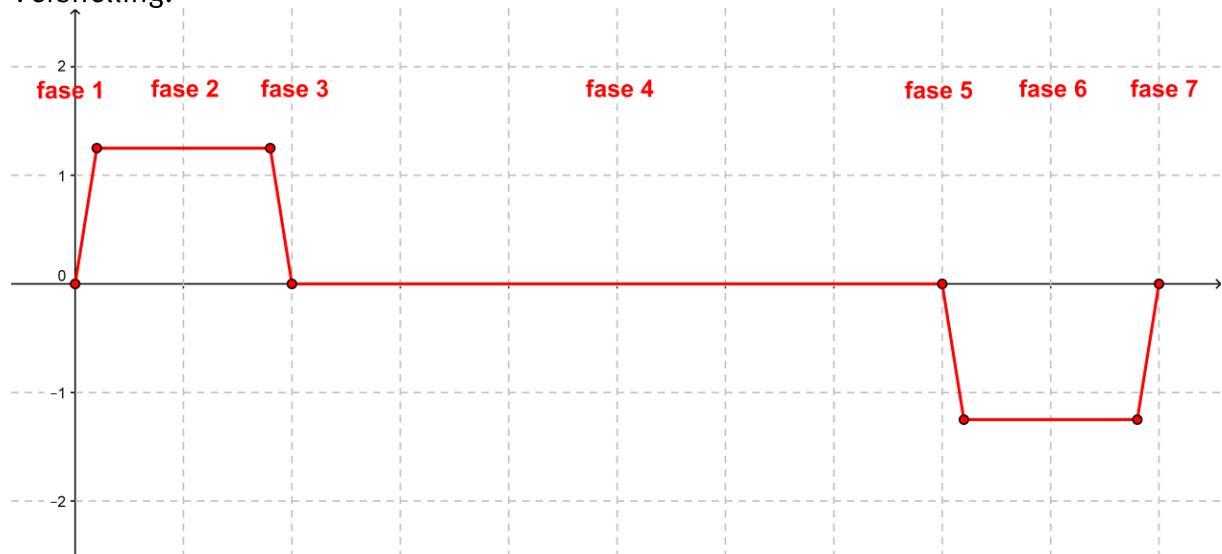
2. ..

Formules:

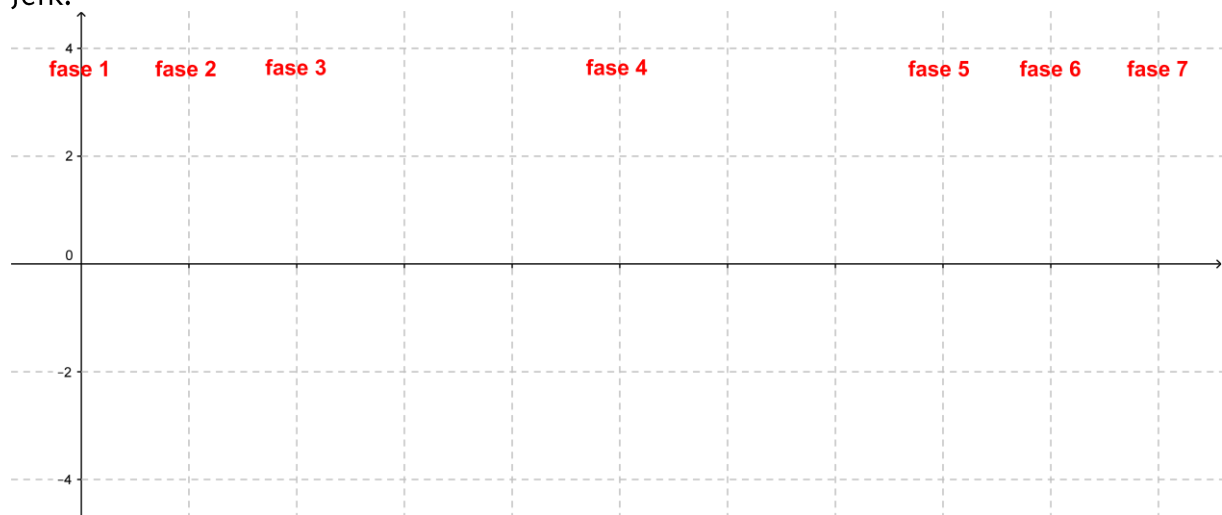
<b>Afgelegde weg</b>	$s(t) = \frac{1}{2} \cdot t \cdot v(t) = \frac{1}{2} \cdot t \cdot 1,25 \cdot t = 0,625 \cdot t^2$	
<b>Snelheid</b>	$v(t) = t \cdot a(t) = 1,25 \cdot t$	$v(t) = s'(t)$
<b>Versnelling</b>	$a(t) = 1,25$	$a(t) = v'(t)$

## Deel 2: met jerk

Versnelling:



Jerk:



Snelheid:



Opgaven, met jerk, fase 1:

1. ..

2. ..

3. ..

4. ..

5. ..

6. ..

Formules:

<b>Afgelegde weg</b>	$s(t) = \dots$	
<b>Snelheid</b>	$v(t) = \frac{1}{2} \cdot t \cdot a(t) = \frac{1}{2} \cdot t \cdot 2,50 \cdot t = 1,25 \cdot t^2$	$v(t) = s'(t)$
<b>Versnelling</b>	$a(t) = t \cdot j(t) = 2,50 \cdot t$	$a(t) = v'(t)$
<b>Jerk</b>	$j(t) = 2,50$	$j(t) = a'(t)$

En na wat uitleg:

<b>Afgelegde weg</b>	$s(t) = \frac{1,25}{3} \cdot t^3$
----------------------	-----------------------------------

Opgaven, met jerk, fase 2 en daarna:

1. ..

2. ..

3. ..

4. ..

5. ..

6. ..

The grid consists of 12 columns and 18 rows of dashed lines. The first six rows correspond to the numbered tasks (1-6), each with two rows of space. The remaining 12 rows are blank space for additional work.