

# Introduction

## Homework results

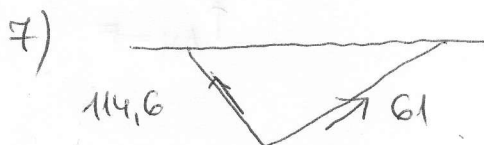
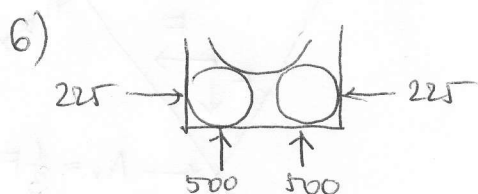
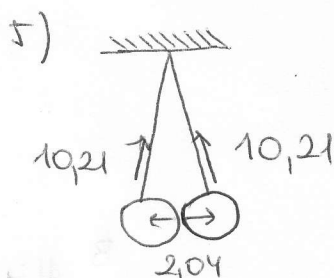
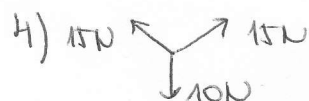
- HW1**
- 1)  $[7; -18]$  19,31
  - 2) 5,099 5,83
  - 3)  $[3; 2,33]$   $[5; 3,67]$
  - 4)  $[-2; 0]$   $[0; 6]$
  - 5)  $-21$   $156,7^\circ$   $a \times b = [0 \ 0 \ 9]$
  - 6)  $31^\circ$  15,01
  - 7)  $\alpha = -1$
  - 8)  $D[-2; -2]$   $A = 2G$
  - 9)  $[-3,5; -3,5]$

(10)

- HW2**
- 1) a)  $x = -3,76$   $y = -4,2$       b)  $a \neq 1,5$  so: any number, except 1,5

2)  $[1,7; 5,1]$   $[3,3; -1,1]$

3) 746



8)  $\sqrt{3}$  ( $= 1,732$ )

9)  $90^\circ, 126,87^\circ, 143,13^\circ$

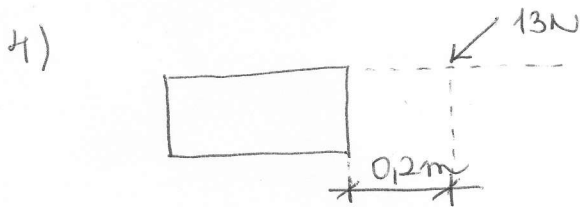
**HW3**

1)  $(F_{1x} = 1,267 \quad F_{1y} = 2,719)$

	X component	y component	$M_A$	$M_B$
$F_1$	1,267	2,719	19,03 ↻	8,157 ↻
$F_2$	2,82	2,82	11,31 ↻	∅
$F_3$	4	3	∅	12 ↻

2)  $A_x = 8,087 \leftarrow \quad A_y = 0,96 \downarrow \quad B_y = 7,586 \downarrow$

3) vertical down ( $\downarrow$ )  $F_1/F_2 = \sqrt{3}$



**HW4**

