

**MATHEMATICS 2**  
**Thursday March 22 2018**  
**Weekly test number 3**

Exercise 1: Determine the parametric equation of the line on  $\mathbb{R}^3$  passing through the points  $A(3, 2, 3)$  and  $B(5, 6, -1)$ .

Exercise 2: Determine which of the following vectors are orthogonal

$$\vec{v}_1 = (6, 3), \quad \vec{v}_2 = (-1, 0), \quad \vec{v}_3 = (1, -2), \quad \vec{v}_4 = (2, 1)$$