Send the task to: kmwr@o2.pl. The safest format is .pdf Total time for the test: 13 minutes

- 1. Let $\vec{u} = [p, 4, 1]$ and $\vec{v} = [p 1, q, 3]$.
 - a) Find all p, q for which $\vec{u} \parallel \vec{v}$.
 - b) For p = q = -1 find, to the nearest degree, the angle between \vec{u} and \vec{v} .
- 2. A plane contains 3 points: A = (1, 1, 2), B = (0, -2, -1) and C = (2, -1, 1). Find an equation of this plane in
 - a) cartesian form,
 - b) parametric form.

(6p)

(7p)