Send the task to: kmwr@o2.pl. The safest format is .pdf

Total time for the test: 13 minutes

- 1. Let $\vec{u} = [p, -2, 1]$ and $\vec{v} = [p 2, q, 3]$.
 - 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} .

(7p)

- 2. A plane contains 3 points: A = (-1, -2, -3), B = (0, 2, 1) and C = (1, -1, 1). Find an equation of this plane in
 - a) cartesian form,
 - b) parametric form.

(6p)