## MTH 111, Math. for the Architects, Quiz Five Spring 2014

Ayman Badawi

QUESTION 1. An equation of the plane $P$ is $3 x+4 y-5 z=12$ and an equation of the line $L$ is $x=1+2 t, y=$ $1+t, z=1+2 t$. Does $L$ intersect $P$ ? If no, find $|L P|$ (the distance between $L$ and $P$ ).

QUESTION 2. Given that the three points : $(1,1,0),(2,1,0),(3,3,1)$ lie in the plane $P$. Find an equation of $P$.

## Faculty information

Ayman Badawi, Department of Mathematics \& Statistics, American University of Sharjah, P.O. Box 26666, Sharjah, United Arab Emirates.

