

#ATTENDANCE QUIZ for Lecture 2 of Math251(Dr. Z.)
#EMAIL RIGHT AFTER YOU WATCHED THE VIDEO #BUT
NO LATER THAN FRIDAY, Sept. 11, 2020, 8:00PM (Rutgers
time) #THIS .txt FILE (EDITED WITH YOUR ANSWERS)
#TO: #DrZcalc3@gmail.com #Subject: aq2 #with an
ATTACHMENT CALLED: #aq2FirstLast.txt #(e.g.
aq2DoronZeilberger.txt)

#ANSWERS TO QUESTIONS ASKED IN LECTURE 2

Q1. THE FIRST ATTENDANCE QUESTION WAS: Let a BE
the 2nd DIGIT of YOUR RUID, Let b BE the 5th DIGIT of
YOUR RUID, DECIDE WHETHER THE LINE JOINING THE
POINTS $[a,0,0]$ and $[0,0,b]$ AND THE LINE JOINING THE
POINTS $[0,a,0]$ and $[b,0,0]$ MEET EACH OTHER. IF THEY
DO FIND THE POINT OF INTERSECTION.

A1. MY ANSWER TO THE FIRST ATTENDANCE
QUESTION IS: They intersect at the origin.

Q2. THE SECOND ATTENDANCE QUESTION WAS: LET a BE the 1st DIGIT of YOUR RUID, Let b BE the 2nd DIGIT of YOUR RUID. FIND THE EXPANDED EQUATION OF THE SPHERE WHOSE CENTER IS $[0,a,b]$ and RADIUS is $2*b$.

A2. MY ANSWER TO THE SECOND ATTENDANCE QUESTION IS:

$$x^2 + y^2 + z^2 - 2y - 18z + 82 = 324$$

Q3. THE THIRD ATTENDANCE QUESTION WAS: LET a BE THE 2nd DIGIT of Your RUID. Let b BE THE 3rd DIGIT of YOUR RUID. Let c BE THE 5th DIGIT of YOUR RUID. FIND:

(i) $\langle a,b,c \rangle * \langle b,-a,c \rangle$

(ii) $\langle a,b,c \rangle \times \langle b,-a,c \rangle$

A3. MY ANSWER TO THE THIRD ATTENDANCE
QUESTION IS:

i) 0

ii) $\langle 0, 0, -97 \rangle$