



	Q1	Q2	Q3
Mark			

Question 1: (10 marks) Choose the correct answer

- Let A be a square matrix, Then $A^{-1} =$
 - $\frac{1}{\det(A^T)} \text{adj}(A)$
 - $\frac{1}{\det(A)} \text{Cofactor}(A)$
 - I
- let E be an nxn elementary matrix. If E results from adding a multiple of one row of I_n to another, then $\det(A) =$
 - I_n
 - one
 - $-\det(A)$
- The norm of the vector $u = (-7, 2, -1)$ is
 - $\sqrt{54}$
 - $-\sqrt{54}$
 - $\sqrt{45}$
- The components of the vector having initial point $P_1 = (-1, 0, 2)$ and $P_2 = (0, -1, 0)$. is $P_1P_2 = :$
 - $(1, 1, -2)$
 - $(-1, 1, -2)$
 - $(1, -1, -2)$
- Whose are whether u and vectors make **acute** angle?
 - $u = (6, 1, 4)$ and $v = (2, 0, -3)$
 - $u = (-6, 0, 4)$ and $v = (3, 1, 6)$
 - $u = (0, 0, -1)$ and $v = (1, 1, -1)$

Course No:TECH 1302
Course Title: Mathematics2
Date: 15/04/2018
No. of Questions: (3)
Time: 1hours
Using Calculator (No)

University of Palestine



Second Mid Term Exam
Second Semester 2017/2018
Total Grade:

Instructor Name: _____
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)

Question 2: (10 marks) Assume $A = \begin{bmatrix} 2 & -1 & 3 \\ 6 & 3 & 1 \\ 0 & 0 & 2 \end{bmatrix}$, find the following:

a) Cofactors of A.(3 marks)

b) Adjoint of A.(3 marks)

Course No:TECH 1302
Course Title: Mathematics2
Date: 15/04/2018
No. of Questions: (3)
Time: 1hours
Using Calculator (No)

University of Palestine



Second Mid Term Exam
Second Semester 2017/2018
Total Grade:

Instructor Name: _____
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)

c) Using row reduction, find $|A|$.

(2 marks)

d) Using the adjoint, find an inverse matrix of A.(2 marks)

