

Remedial Course In Mathematics (Math092)
Final Examination

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Set:D

Section: 02

Annour 4(a)

fix) is a polynomial of degree 4.

i. There will be for treather.

As one zoro is treat and another.

The complex so the past two zeros

of the polynomials is one treat and

of the polynomials is one treat and

to complex. So in tremning zeros, one

Zero will be treat number.

As complex proots always stey in point with their conjugates so one of the unith their conjugates so one of the zero will be 4+2i. (A).

Answer 1 (b)

The given equations
$$x + 4y - 32 = 1$$

$$3x - y + 32 = 1$$

$$10x + y + 62 = -2$$
The determinants of the given equations
$$1 = 1$$

$$D = \begin{vmatrix} 1 & 4 & -3 \\ 3 & -1 & 3 \end{vmatrix}$$
10 1 6

$$= 1 \left(-6 - 3 \right) - 4 \left(18 - 30 \right) - 3 \left(3 + 10 \right)$$

$$= -9 + 48 - 39$$

So we see then the determinants of the given three equations are zero. So thre Statement of of my friend is connect. The Statement of of my friend is connect. The restrict whose determinants

got not have solution.

(Showed).

Answer 2(9)

Griver,
$$U = 2i - 3j + k$$
 $V = -3i + 3j + 2k$
 $V = -3i + 3j + 2k$

Now, $U = 2 - 3 + 1$
 $V = 2 - 3 + 1$
 V

Ansner 2(b)

Let A.C = BC

or, A = B C C-1

on, A = B I

1 = B

S., Yes A=B is volid if c is a inversible

matrix because Ac = Bc then,

 $A = BC \times C(-\tau) = BI = B$

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