

İSTANBUL OKAN ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ MÜHENDİSLİK TEMEL BİLİMLERİ BÖLÜMÜ

2019 - 20

MATH117 Mathematics for Architecture – Homework 1 Solutions

N. Course

Circled exercises were chosen randomly using the "Integer Set Generator" feature on the website random.org. Nobody (teachers or students) knew which exercises would be marked until after the deadline had passed.

1	Q	11	$Q \vee H$	$ (I \land (Q \lor Ii)) $	1 / 6	$I \wedge I\iota$	$(I \land Q) \lor (I \land Ii)$
T	Т	$\mid T \mid$	Т	T	Т	Т	Т
$_{\mathrm{T}}$	Т	$\mid F \mid$	Т	T	Γ	F	Т
T	F	$\mid T \mid$	Т	T	F	Т	${ m T}$
T	F	$\mid F \mid$	F	F	F	F	F
F	Т	$\mid T \mid$	Т	F	F	F	F
F	Т	$\mid F \mid$	Т	F	F	F	F
F	F	$\mid T \mid$	Т	F	F	F	F
F	F	F	F	F	F	F	F
	T T T F F	T T T T F T T T T F T T T T T T T T T T	T T T T T T T T T T T T T T T T T T T	T T T T T T F T T F T T T F F F F T T T F T F T F F T T	T T T T T T T T T T T T T T T T T T T	T T T T T T T T T T T T T T T T F F F F F T T F F F T F F F F T T F F F F T F F	T T T T T T T T T T T T T T T T T T F T

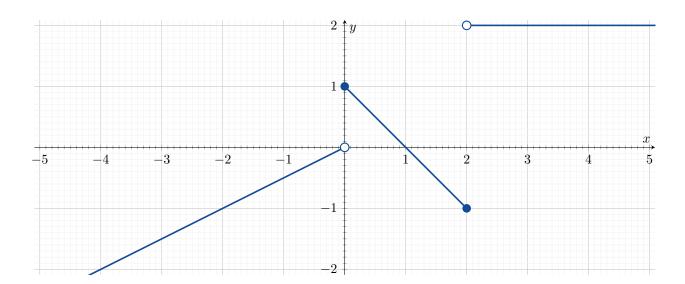
2. (a)
$$||AB|| = \sqrt{(-3-1)^2 + (4-1)^2} = \sqrt{16+9} = 5$$
,

(b)
$$||BC|| = \sqrt{(-3-3)^2 + (0-4)^2} = \sqrt{16} = 4$$
,

(c)
$$||CA|| = \sqrt{(1-3)^2 + (1-0)^2} = \sqrt{17}$$
.

- (3.) (a) even
 - (b) even
 - (c) even
 - (d) odd
 - (e) odd
 - (f) neither

4.



5.

