61 2:27

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4

MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 10 of 30 (Start time: 02:27:06 PM, 09 July 2020)

Total Marks: 1

If n≥2, then the collection of all even permutations of {1, 2, ..., n} forms a subgroup of order _____ of the symmetric group Sn.

Select the correct option

- n!
- n!/2
- n!/3
- n!/4

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 11 of 30 (Start time: 02:28:09 PM, 09 July 2020)

Total Marks: 1

The binary structures $\left\langle {C,\,\, \cdot } \right\rangle $ and $\left\langle {R,\,\, \cdot } \right\rangle $ are not isomorphic

Select the correct option

- True
- False

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 12 of 30 (Start time: 02:30:02 PM, 09 July 2020) Total Marks: 1

For each positive integer n, let Un be the multiplicative group of the nth roots of unity in C. Then the elements of Un can be represented geometrically with equally spaced points on _____

Select the correct option

- a square
- a rectangle
- a circle with centre origin
- an ellipse with centre origin

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 13 of 30 (Start time: 02:30:47 PM, 09 July 2020) Total Marks: 1

The number of cosets of subgroup of a group is the ... of subgroup.

Select the correct option

- left cosets
- right cosets
- indices
- none of above

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 14 of 30 (Start time: 02:31:34 PM, 09 July 2020)

Total Marks: 1

Let H be a subgroup of G and a, b in G. If a belongs to H then

Select the correct option

- aH=H
- Ha=aH
- bH=H
- bH=Hb

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 15 of 30 (Start time: 02:32:15 PM, 09 July 2020)

Total Marks: 1

Suppose G = < a > with | a | = 7 and e is identity. Which of the following is true?

Select the correct option

- a^12 = e
- a^13 = e
- a^14 = e
- a^15 = e

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 16 of 30 (Start time: 02:32:54 PM, 09 July 2020)

Total Marks: 1

The binary structures $(Q, +)$ and $(R, +)$ are not isomorphic.

Select the correct option

Reload Math Equations

- True
- False

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 18 of 30 (Start time: 02:33:44 PM, 09 July 2020)

Total Marks: 1

_____ is also called the octic group.

Select the correct option

- D3
- D4
- D5
- D6

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 20 of 30 (Start time: 02:35:15 PM, 09 July 2020)

Total Marks: 1

Let G be an abelian group. A direct product of G is

Select the correct option

- cyclic
- non-cyclic
- abelian
- non-abelian

Click to Save Answer & Move to Next Question

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4

MC190202258: BILAL SIDDIQUE

Time Left 88 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 19 of 30 (Start time: 02:34:26 PM, 09 July 2020)

Total Marks: 1

A group can have more than one identity.

Select the correct option

- True
- False

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 90 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 22 of 30 (Start time: 02:37:23 PM, 09 July 2020)

Total Marks: 1

If N is a normal subgroup of a group G, the left cosets of N in G are not the same as the right cosets of N in G

Select the correct option

- False
- True

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 87 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 23 of 30 (Start time: 02:38:37 PM, 09 July 2020)

Total Marks: 1

A subset H of a group G is a subgroup of G if and only if (i) whenever $a, b \in H$, then $ab \in H$ (ii) whenever $b \in H$, then $b^{-1} \in H$

Select the correct option

Reload Math Equations

- True
- False

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 80 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 24 of 30 (Start time: 02:39:27 PM, 09 July 2020) Total Marks: 1

If subgroup

$$H = \{e, g^4, g^8\}$$

in group

Select the correct option

Reload Math Equations

- $\{g, g^5, g^9\}$
- $\{g^3, g^7, g^{11}\}$
- $\{g^2, g^6, g^{10}\}$
- $\{g^4, g^7, g^{12}\}$

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 26 of 30 (Start time: 02:43:10 PM, 09 July 2020)

Total Marks: 1

The group (Z, +) is a finite group, where Z is the set of integers.

Select the correct option

- False
- True

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 88 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 25 of 30 (Start time: 02:42:02 PM, 09 July 2020)

Total Marks: 1

If m divides the order of a finite abelian group G then G has a .... of order m.

Select the correct option

- cyclic group
- subgroup
- subgroup
- klein 4-group

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 27 of 30 (Start time: 02:44:18 PM, 09 July 2020)

Total Marks: 1

The group (Q, +) is an infinite group, where Q is the set of rational numbers.

Select the correct option

- False
- True

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 28 of 30 (Start time: 02:45:54 PM, 09 July 2020)

Total Marks: 1

For a cyclic group G = < a >, if |a| = ∞, then a^i=a^j if and only if _____

Select the correct option

- i > j
- i < j
- i = j
- i ≠ j

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 29 of 30 (Start time: 02:46:26 PM, 09 July 2020)

Total Marks: 1

For a cyclic group G = < a >, a^k = e implies _____

Select the correct option

- |a| | k - 1
- |a| | k
- |a| | k + 1
- |a| | k + 2

Click to Save Answer & Move to Next Question

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MC190202258: BILAL SIDDIQUE

Time Left 83 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 02:19 PM, 09 July 2020

Question # 30 of 30 (Start time: 02:46:56 PM, 09 July 2020)

Total Marks: 1

$Hg = gH$, *for all* $g \in G$, *if and only if* H *is a normal subgroup of* G.

Select the correct option

Reload Math Equations

- True
- False

Click to Save Answer & Move to Next Question

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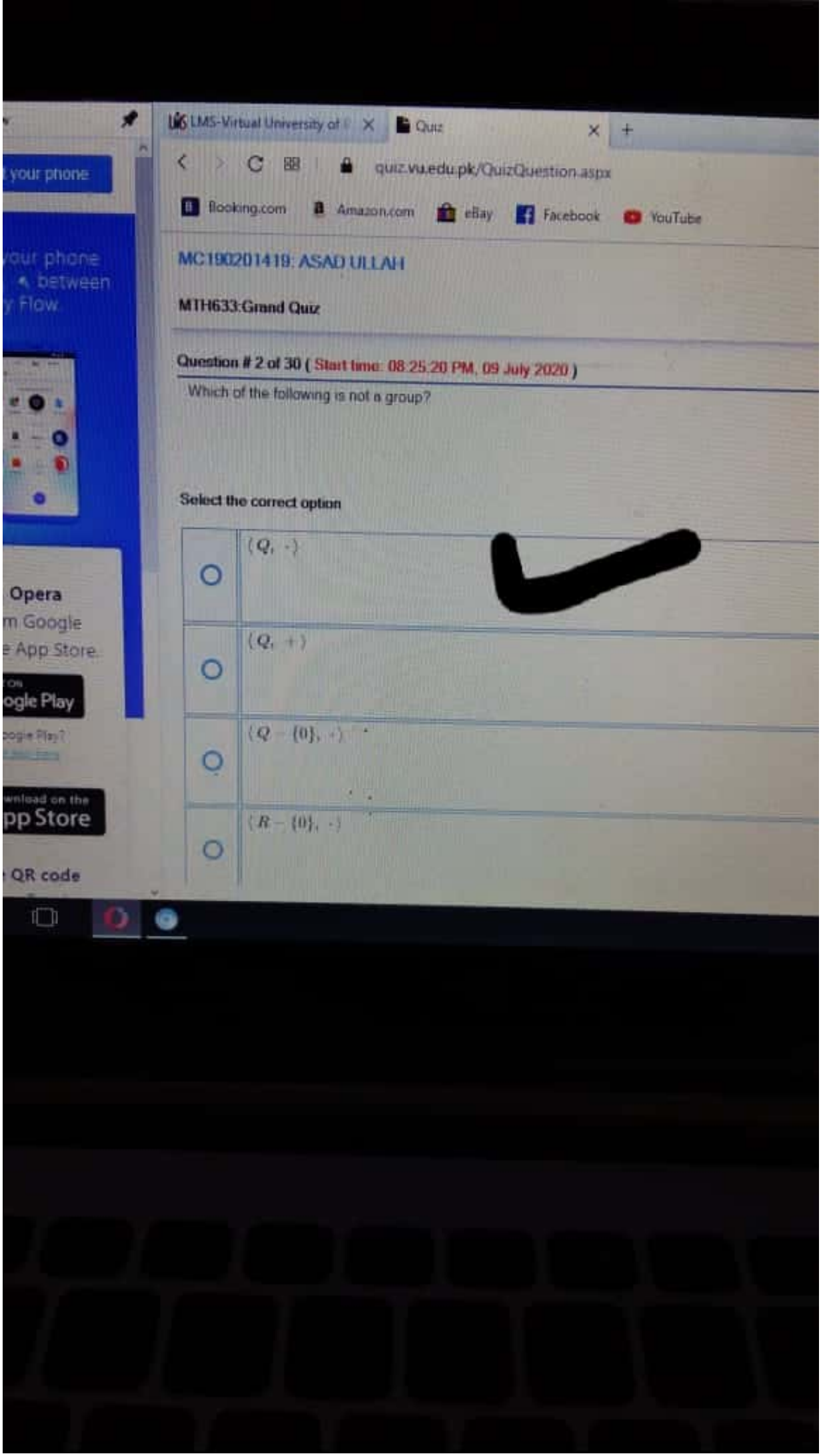

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Question # 3 of 30 (Start time: 08:26:48 PM, 09 July 2020)

$\langle Z, + \rangle$ is the subgroup of $\langle R, \cdot \rangle$.

Select the correct option

- True
- False

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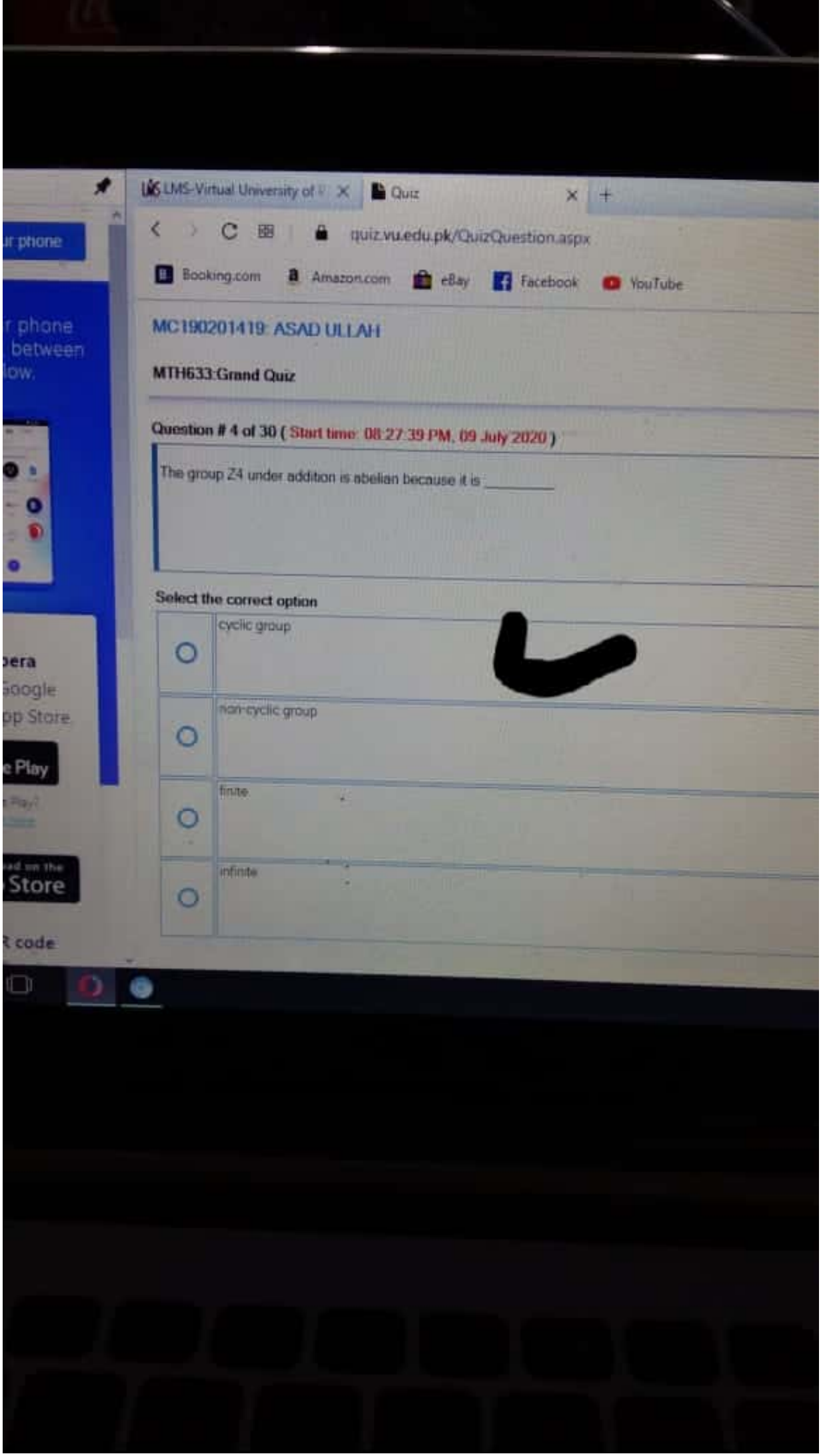

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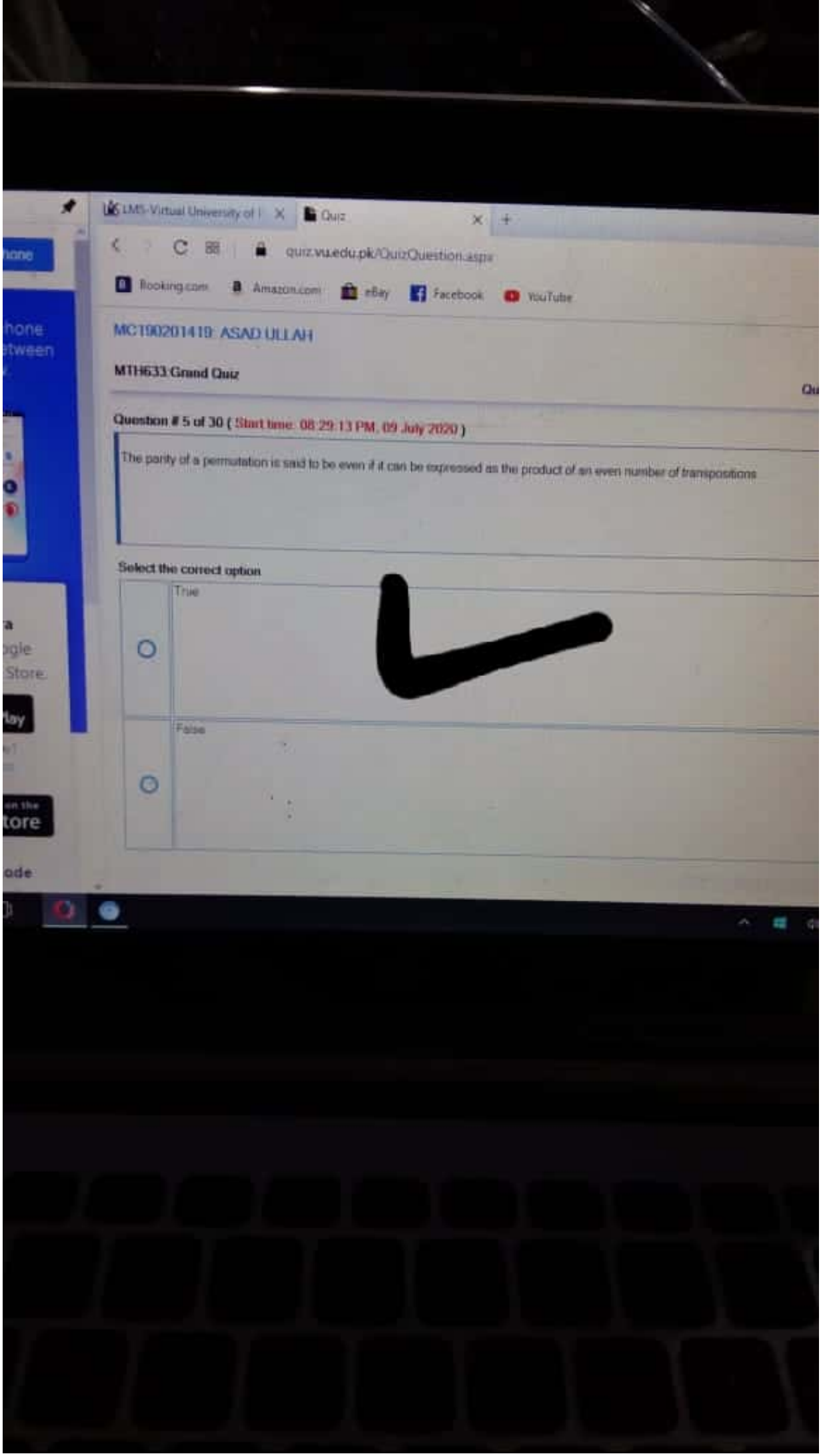

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Question # 6 of 30 (Start time: 08:30:18 PM, 09 July 2020)

Let f:G→H be group homomorphism and a in G then

Select the correct option

- $f(a^{-1}) = f(a)$
- $f(a) = (f(a))^{-1}$
- $f(a) = f(a^{-1})$
- $f(a^{-1}) = f(a)^{-1}$

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Question # 7 of 30 (Start time: 08:31:58 PM, 09 July 2020)

The group (Q, +) is an infinite group, where Q is the set of rational numbers

Select the correct option

- False
- True

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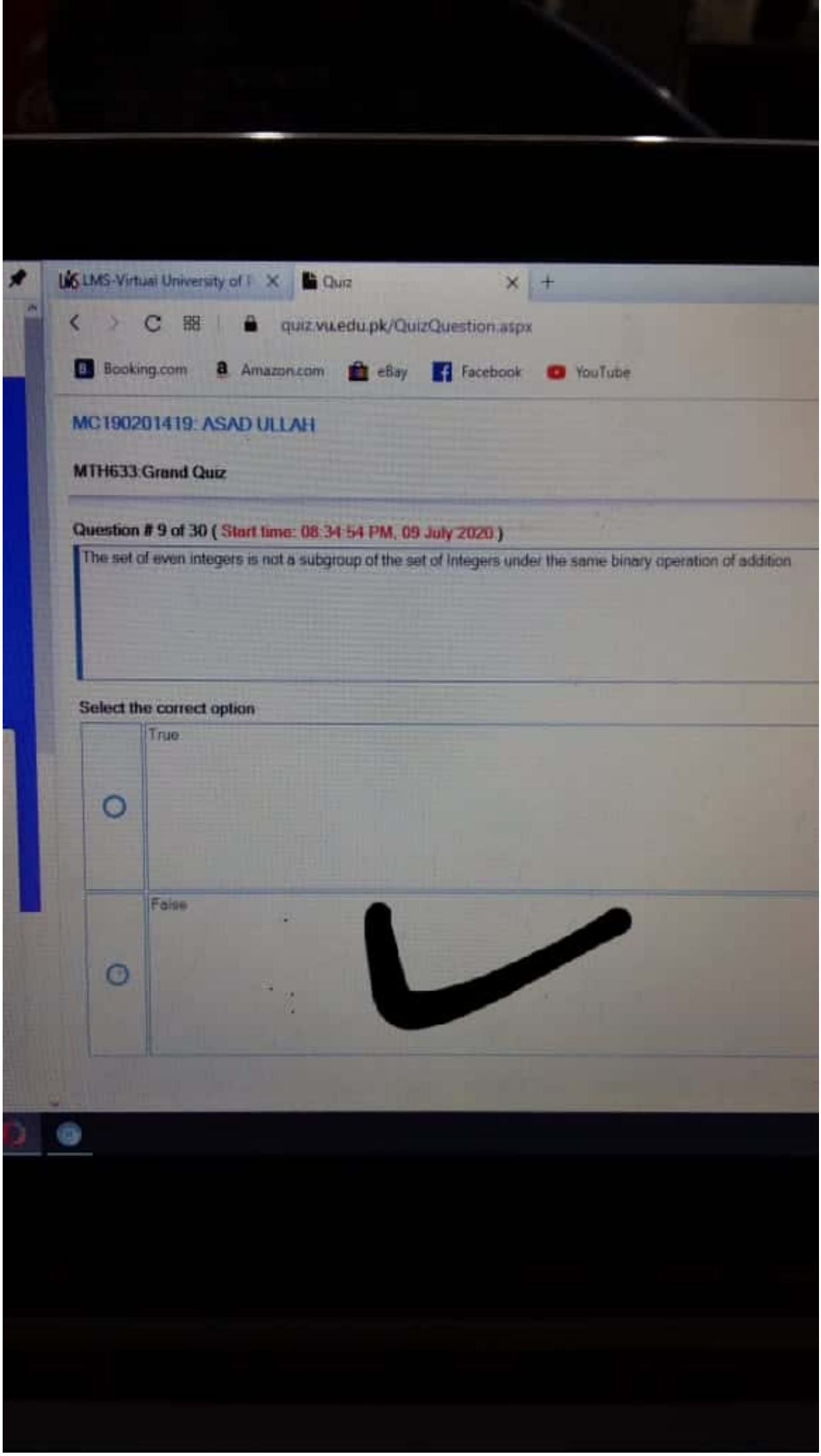

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Question # 8 of 30 (Start time: 08:33:20 PM, 09 July 2020)

A subset H of a group G is a subgroup of G if and only if H is non-empty and ----------

Select the correct option

- whenever $a, b \in H$, then $ab \in H$
- whenever $a, b \in H$, then $b^{-1} \in H$
- whenever $a, b \in H$, then $ab^{-1} \in H$
- whenever $a, b \in H$, then $(ab)^{-1} \in H$

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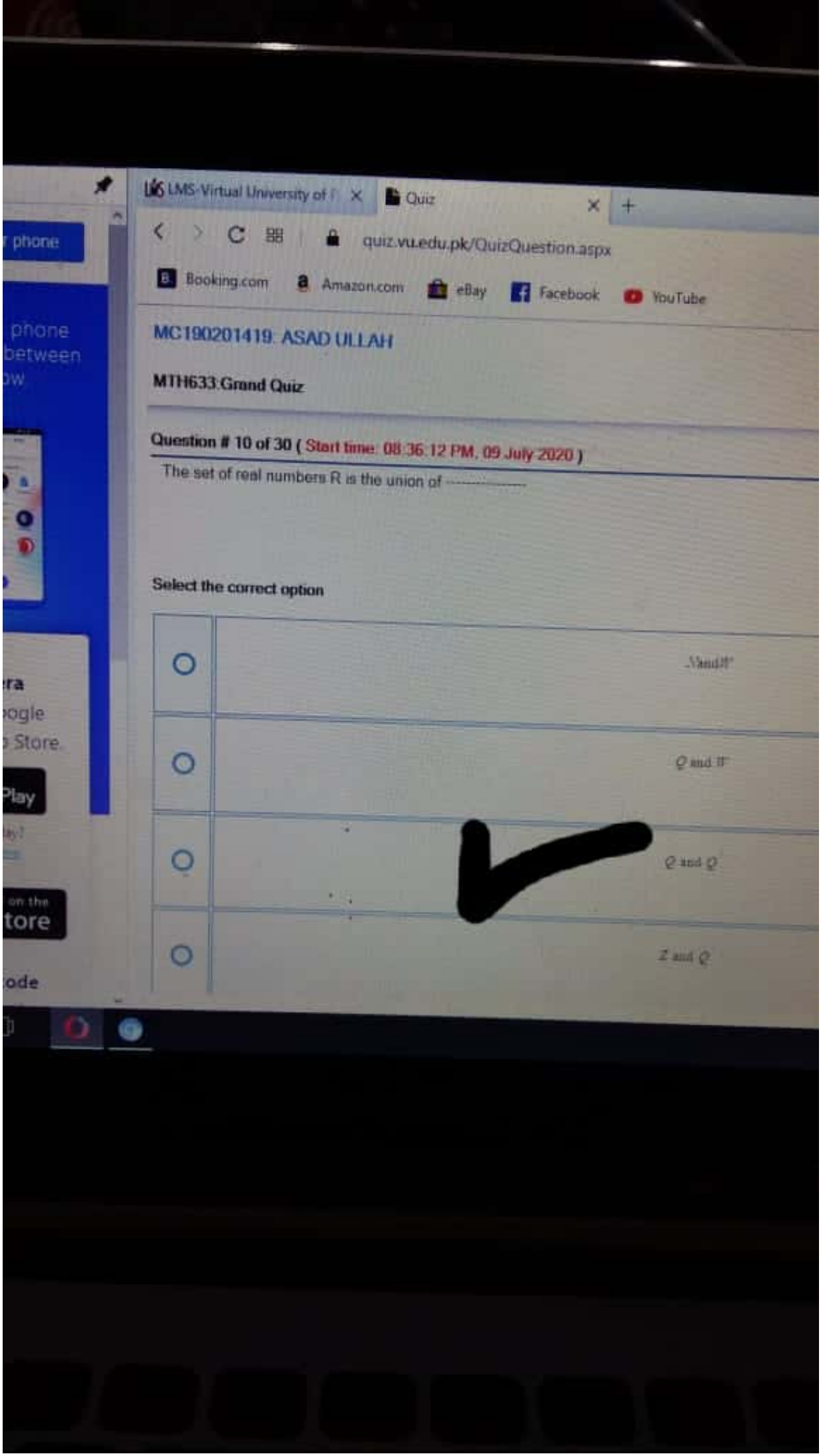

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Question # 11 of 30 (Start time: 08:37:13 PM, 09 July 2020)

Show that $H = \left\{ \begin{pmatrix} 1 & n \\ 0 & 1 \end{pmatrix} \mid n \in Z \right\}$ is the subgroup of G = GL (2, R) under multiplication

Select the correct option

- True
- False

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Question # 12 of 30 (Start time: 08:38:37 PM, 09 July 2020)

Alternating group

A

which has 12 elements has no subgroup of order

Select the correct option

○	3
○	4
○	6
○	all of above

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Question # 14 of 30 (Start time: 08:41:55 PM, 09 July 2020)

The set of all translations in

forms _ under composition

Select the correct option

- abelian group
- non-abelian group
- sylow group
- normal group

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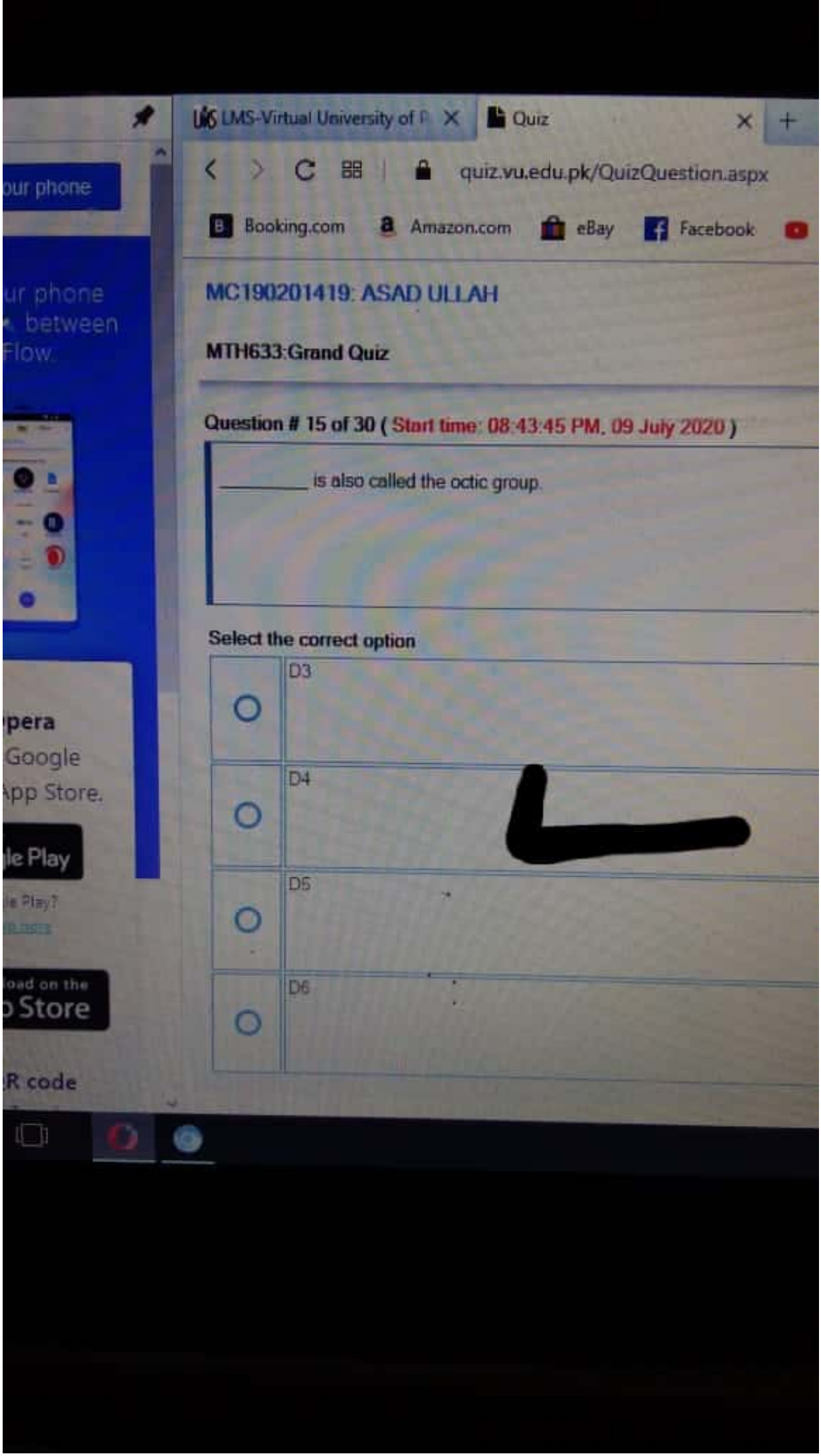

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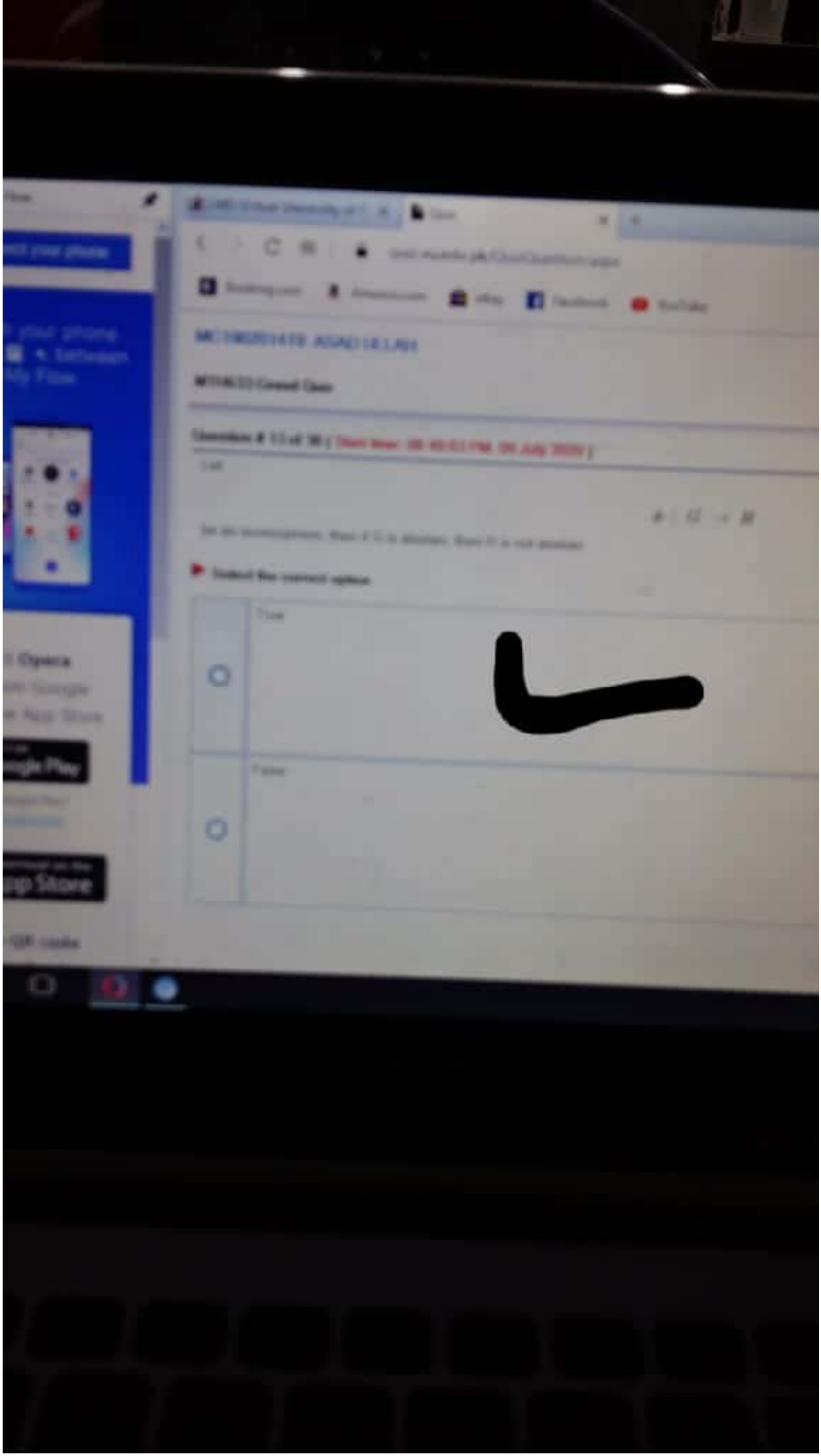

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Question # 16 of 30 (Start time: 08:45:56 PM, 09 July 2020

A group

is... with only one generator.

Select the correct option

- cyclic group
- non-cyclic group
- klein 4-group
- non-abelian group

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MTH633:Grand Quiz

Question # 17 of 30 (Start time: 08:47:16 PM, 09 July 2020)

There are ... different abelian group of order 360.

Select the correct option

○	4
○	5
○	6
○	7

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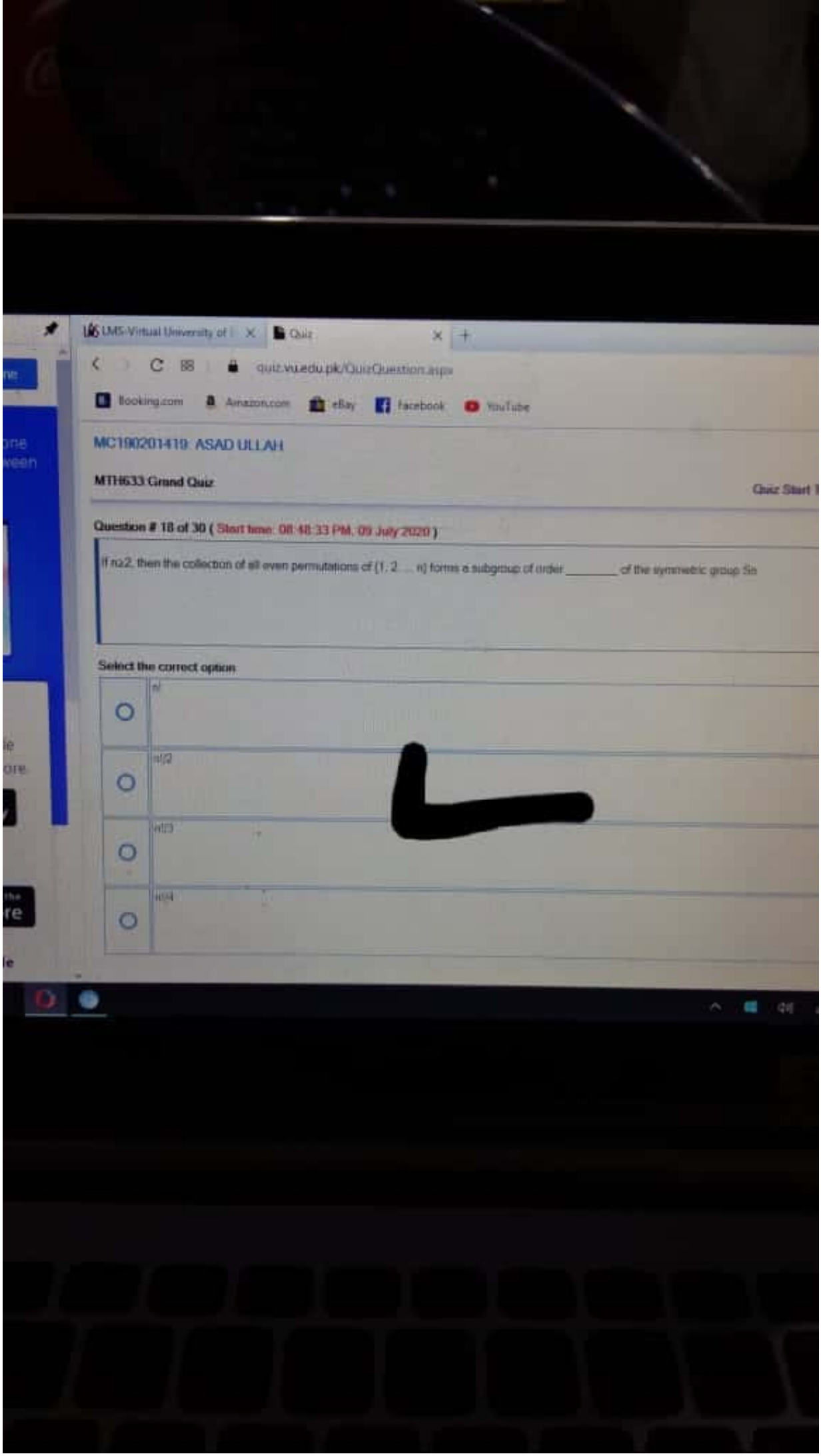

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Question # 19 of 30 (Start time: 08:49:32 PM, 09 July 2020)

In the group {1, -1, i, -i}, the order of -1 is ------

Select the correct option

○	1
○	2
○	3
○	4

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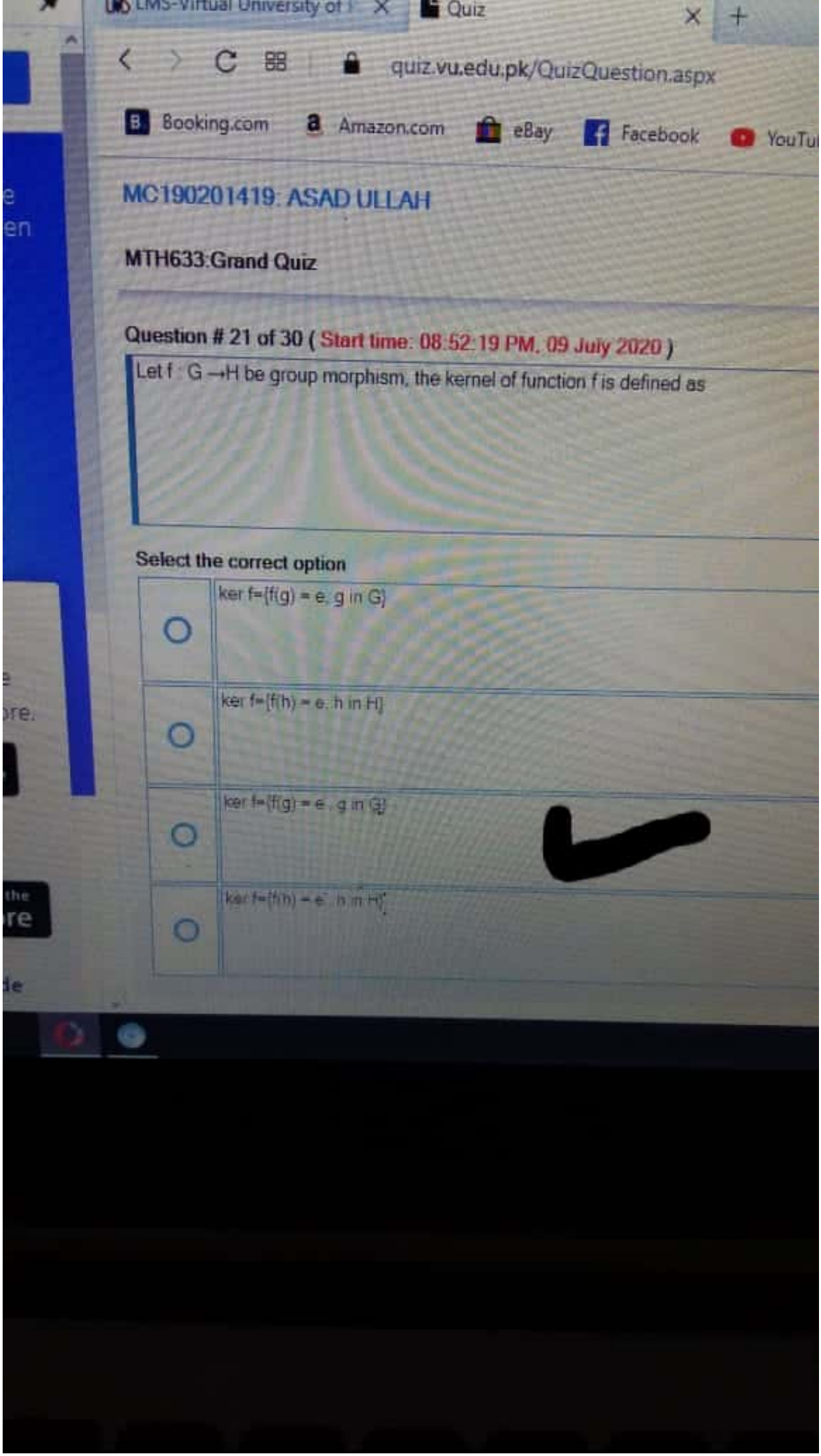

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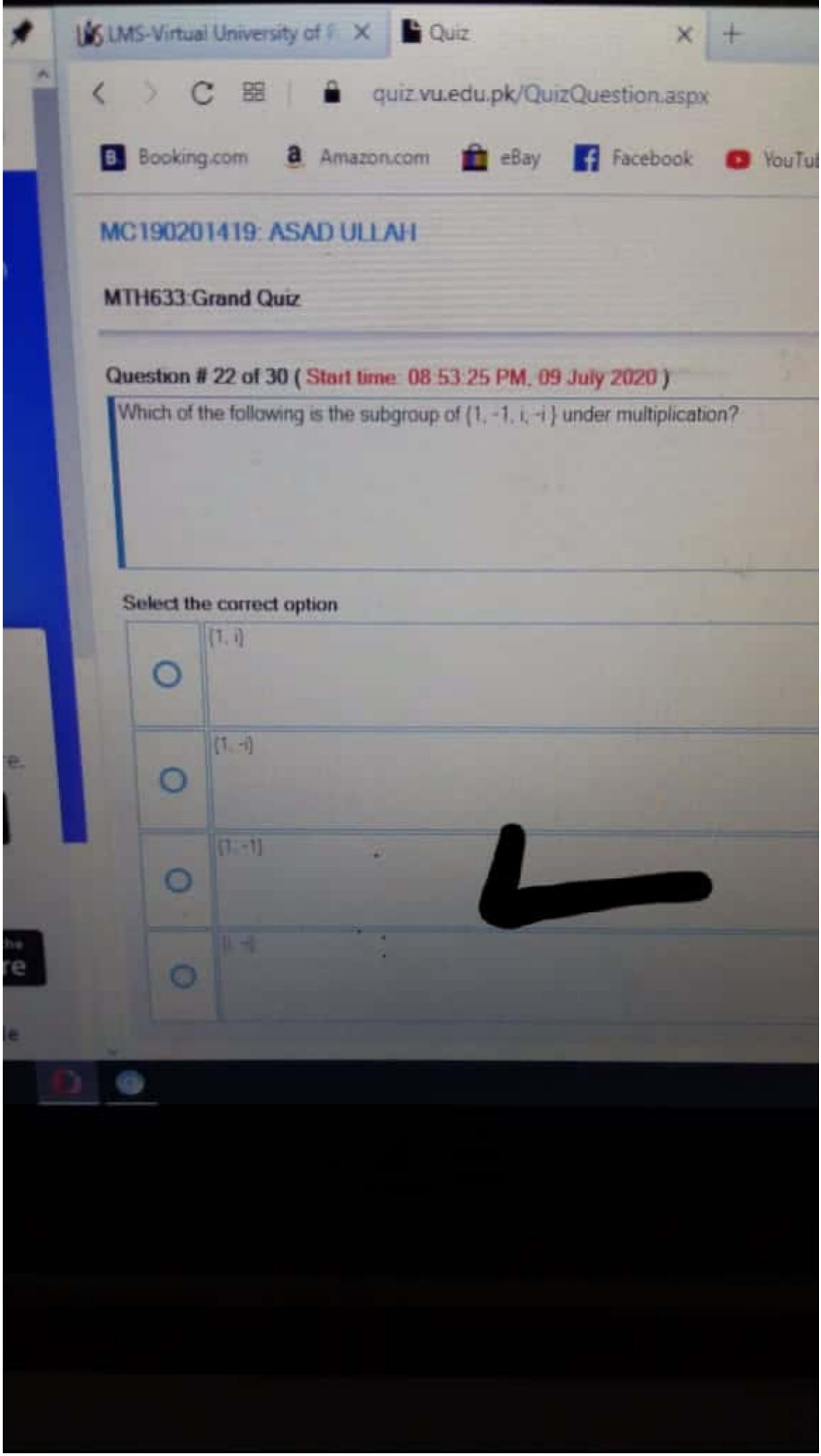

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Question # 23 of 30 (Start time: 08:54:35 PM, 09 July 2020)

Group

$$Z_3 \times Z_4 \times Z_{35}$$

is generated by a single element

Select the correct option

- (1,1,0)
- (0,1,1)
- (1,1,1)
- (0,0,0)

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Question # 24 of 30 (Start time: 08:56:06 PM, 09 July 2020)

In the group {1, -1, i, -i}, the order of i is -------

Select the correct option

1

2

3

4

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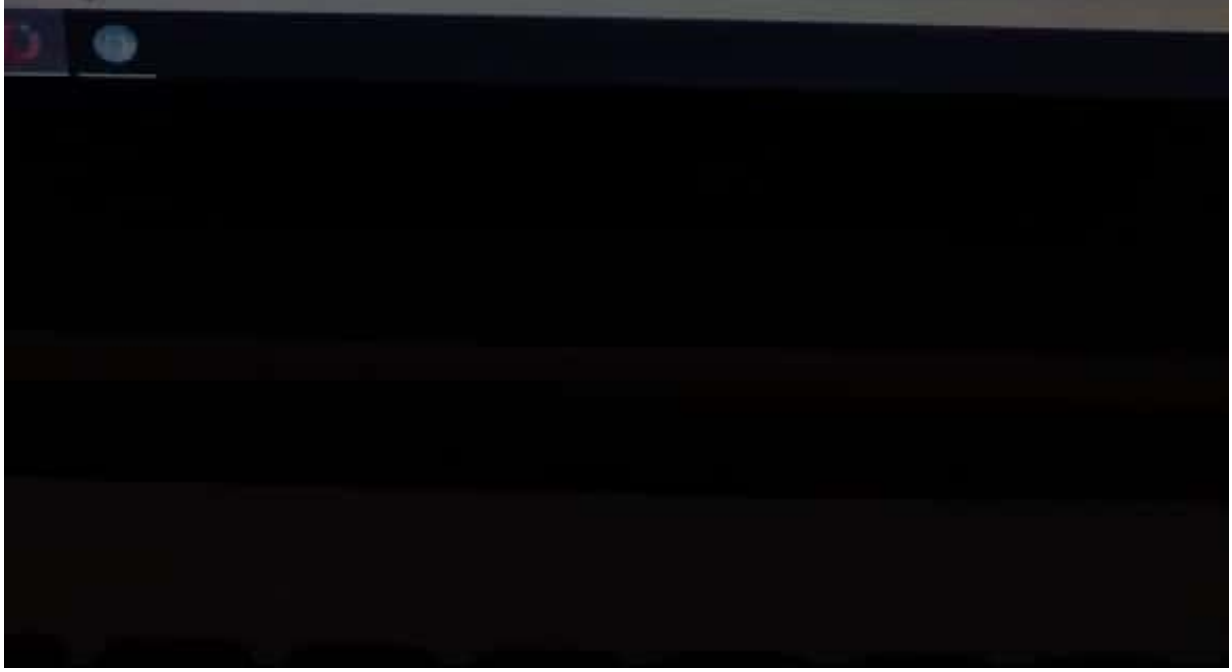
Question # 25 of 30 (Start time: 08:56:52 PM, 09 July 2020)

The finite indecomposable abelian groups are exactly cyclic groups with power of ....

Select the correct option

- integers
- natural numbers
- real numbers
- prime numbers



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MTH633:Grand Quiz

Question # 26 of 30 (Start time: 08:58:21 PM, 09 July 2020)

The function f:Z→ Z_n defined by f(x)=[x] and it is group morphism if for all

Select the correct option

- $f(i+j) = f(i) + f(j)$
- $f(i+j) = {}_n f(i) + f(j)$
- $f(i+j) = f(i) + {}_n f(j)$
- $f(i+j) = {}_n f(i) + {}_n f(j)$

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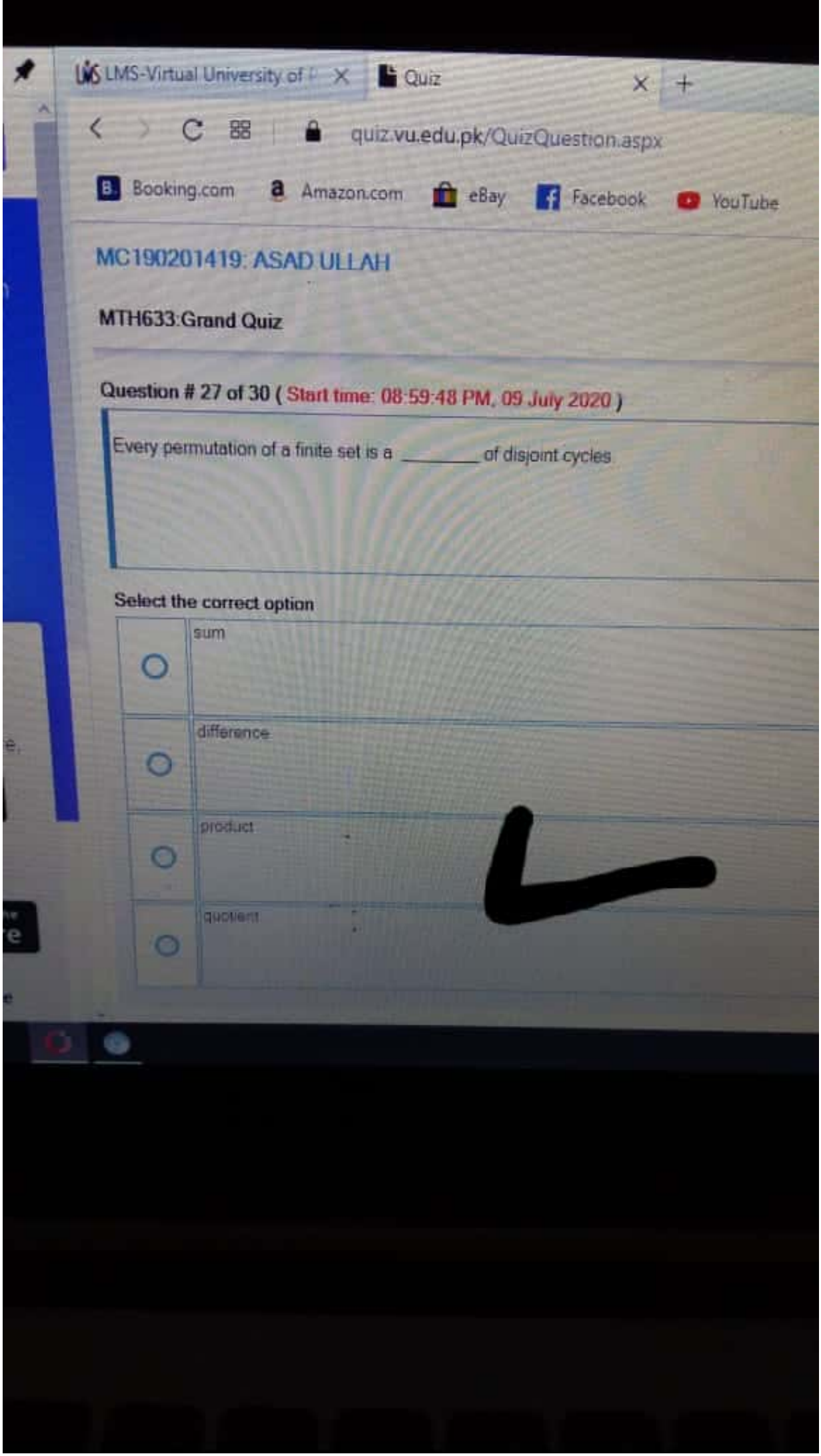

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MTH633:Grand Quiz

Question # 29 of 30 (Start time: 09:02:23 PM, 09 July 2020)

The group (Z, +) is a finite group, where Z is the set of integers.

Select the correct option

- False
- True

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Question # 1 of 30 (Start time: 09:06:58 PM, 09 July 2020)

$\sqrt{7}$ is an irrational number.

Select the correct option

- True
- False

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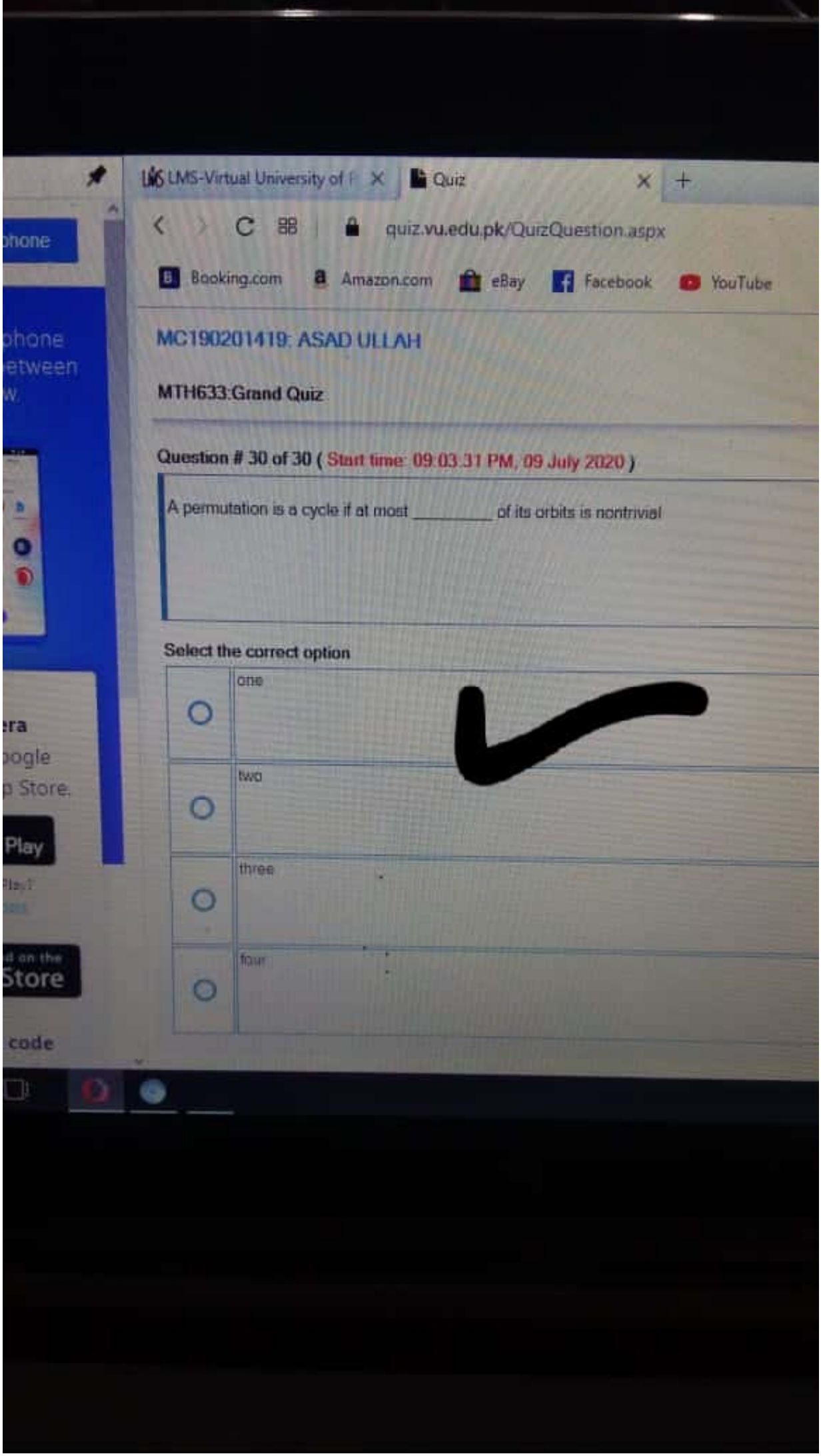

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Let G and G' be groups and let $\phi : G \to G'$ be a one-to-one function such that $\phi(xy) = \phi(x)\,\phi(y)$ for all $x, y \in G$., then _____

Select the correct option

- ○ None of these
- ○ G' is a subgroup of $\phi[G]$
- ○ $\phi[G]$ is equal to G'
- ○ $\phi[G]$ is a subgroup of G'

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Let ϕ be a homomorphism of a group G into a group G'.
If H is a subgroup of G, then $\phi[H]$ is a subgroup of G'.

Select the correct option

- ○ True
- ○ False

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For a cyclic group G = < a >, if |a| = n, then a^i = a^j iff n divides _____

Select the correct option

- i
- j
- i - j
- i + j

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Question # 6 of 30 (Start time: 09:13:42 PM, 09 July 2020)

Let H be a subgroup of G and a in G. If

$$a \in H$$

then

Select the correct option

○	aH is greater than equal to G
○	aH is less than G
○	aH is less than equal to G
○	aH is greater than G

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Question # 7 of 30 (Start time: 09:15:10 PM, 09 July 2020)

A group which is not isomorphic to direct product of two proper non-trivial subgroups is called

Select the correct option

- decomposable
- indecomposable
- homomorphic
- endomorphic

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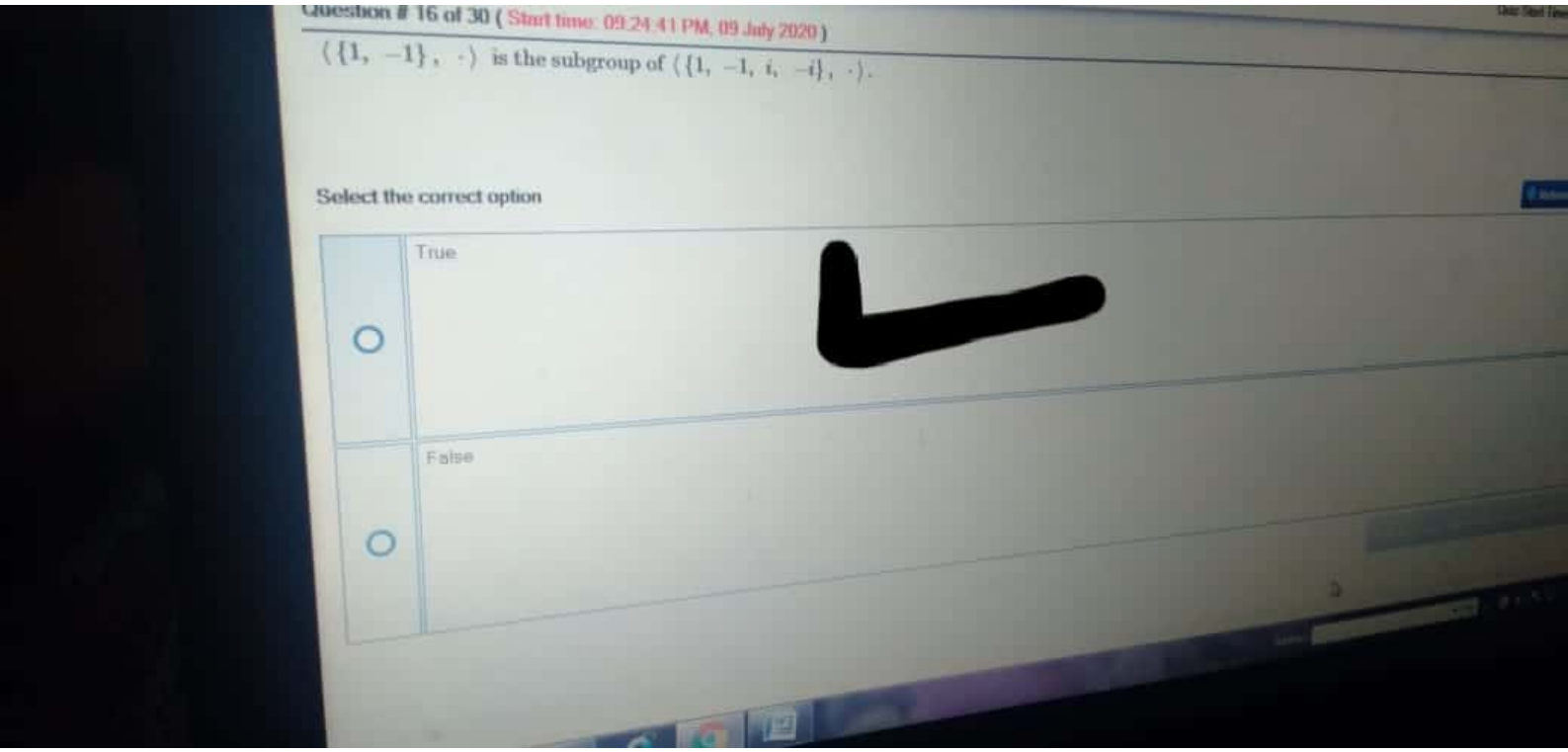

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MTH633:Grand Quiz

Question # 17 of 30 (Start time: 09:25:24 PM, 09 July 2020)

The group Z under addition is the _____ cyclic group generated by 1 or -1.

Select the correct option

- infinite
- finite

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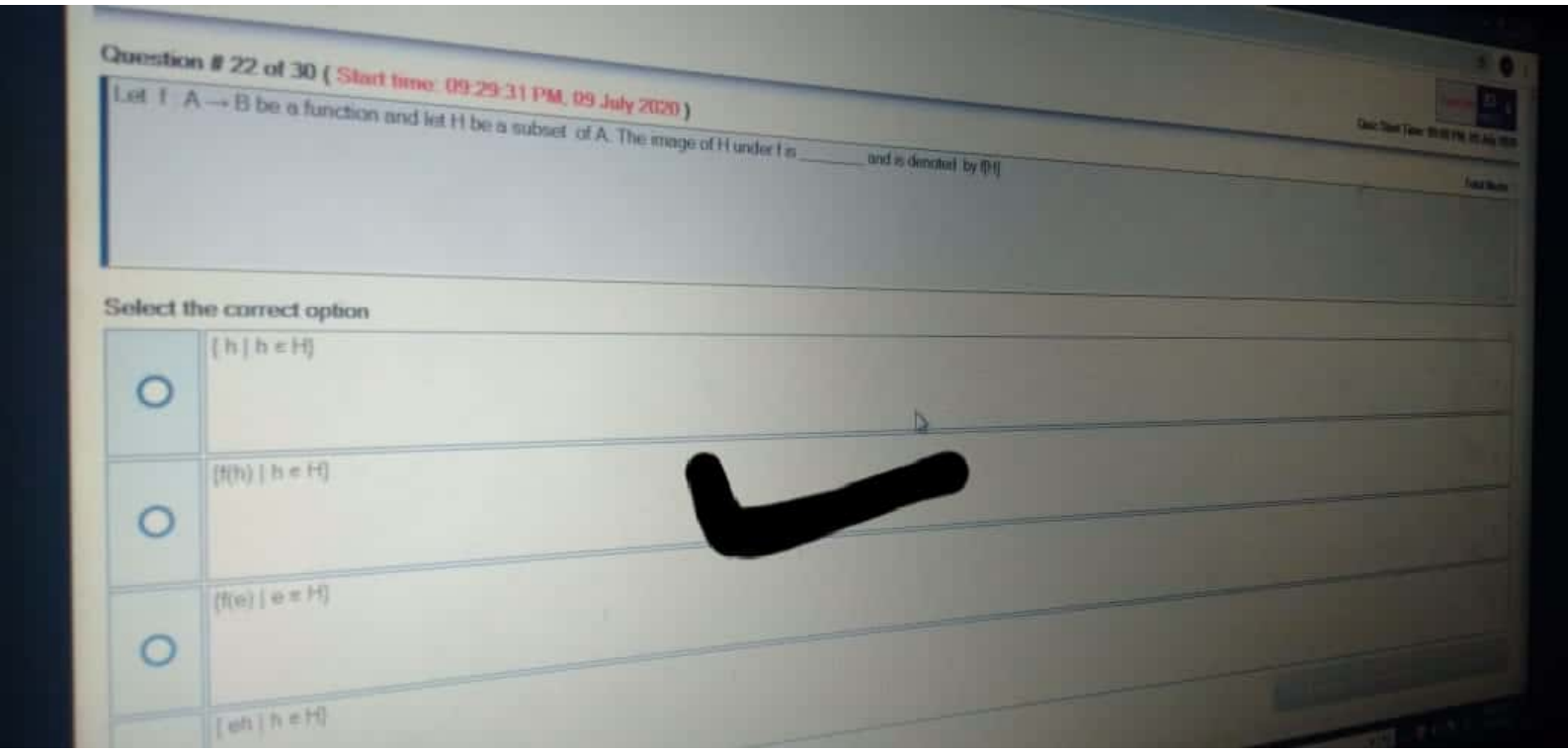

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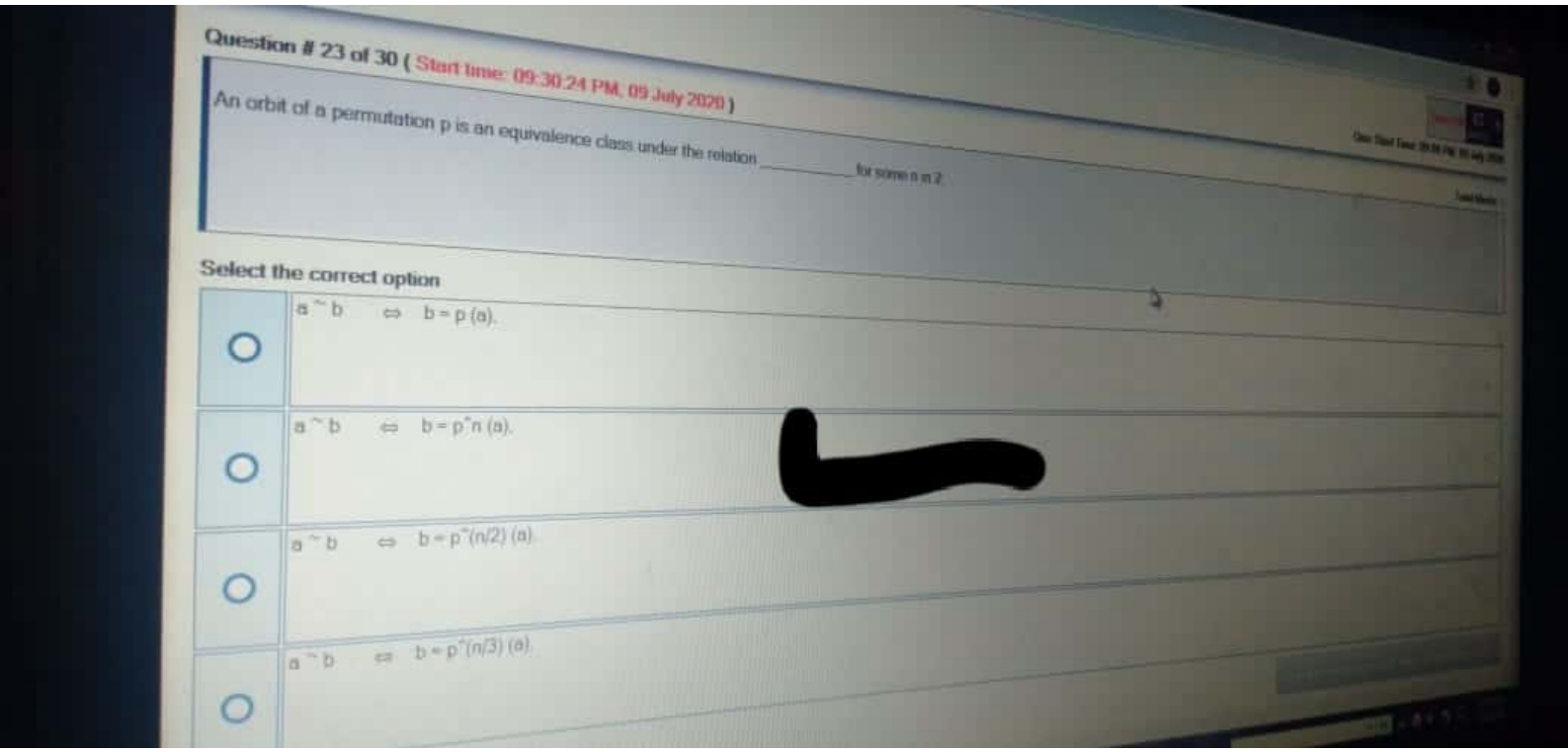

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MC190201375: IFRA MAQSOOD

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 01:43 PM, 09 July 2020

Question # 20 of 30 (Start time: 02:07:21 PM, 09 July 2020)

Total Marks: 1

Suppose G = < a > with | a | = 7 and e is identity. Which of the following is true?

Select the correct option

- a^12 = e
- a^13 = e
- a^14 = e
- a^15 = e

Click to Save Answer & Move to Next Question

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MC190201375: IFRA MAQSOOD

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 01:43 PM, 09 July 2020

Question # 16 of 30 (Start time: 02:03:37 PM, 09 July 2020)

Total Marks: 1

Suppose G = < a > with | a | = 5 and e is identity. Which of the following is true?

Select the correct option

- a^10 = e
- a^11 = e
- a^12 = e
- a^13 = e

Click to Save Answer & Move to Next Question

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MC190201375: IFRA MAQSOOD

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 01:43 PM, 09 July 2020

Question # 21 of 30 (Start time: 02:08:09 PM, 09 July 2020)

Total Marks: 1

Which of the following is true?

Select the correct option

- D4 ≤ S4
- D4 > S4
- D4 = S4
- D4 ≥ S4

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MC190201375: IFRA MAQSOOD

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 01:43 PM, 09 July 2020

Question # 23 of 30 (Start time: 02:09:41 PM, 09 July 2020)

Total Marks: 1

Let G be a finite cyclic group generated by its element a, then _____

Select the correct option

- | G | < | a |
- | G | > | a |
- | G | = | a |
- None of these

Click to Save Answer & Move to Next Question

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2:08 PM 70%

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MC190201375: IFRA MAQSOOD

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 01:43 PM, 09 July 2020

Question # 22 of 30 (Start time: 02:08:45 PM, 09 July 2020) Total Marks: 1

Alternating group

A_4

which has 12 elements has no subgroup of order

Select the correct option

Reload Math Equations

- 3
- 4
- 6
- all of above

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MC190201375: IFRA MAQSOOD

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 01:43 PM, 09 July 2020

Question # 24 of 30 (Start time: 02:10:55 PM, 09 July 2020)

Total Marks: 1

Let G and G' be groups and let $\phi : G \rightarrow G'$ be a one-to-one function such that _____, Then $\phi[G]$ is a subgroup of G' and ϕ provides an isomorphism of G with $\phi[G]$.

Select the correct option

- $\phi(xy) = \phi(x) / \phi(y)$ for all $x, y \in G$
- $\phi(xy) = \phi(x)\,\phi(y)$ for all $x, y \in G$
- $\phi(xy) = \phi(x) + \phi(y)$ for all $x, y \in G$
- $\phi(xy) = \phi(x) - \phi(y)$ for all $x, y \in G$

Click to Save Answer & Move to Next Question

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Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 01:43 PM, 09 July 2020

Question # 25 of 30 (Start time: 02:11:43 PM, 09 July 2020)

Total Marks: 1

A permutation is a cycle if at most _____ of its orbits is nontrivial

Select the correct option

- one
- two
- three
- four

Click to Save Answer & Move to Next Question

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MC190201375: IFRA MAQSOOD

Time Left 89 sec(s)

MTH633:Grand Quiz

Quiz Start Time: 01:43 PM, 09 July 2020

Question # 26 of 30 (Start time: 02:12:51 PM, 09 July 2020)

Total Marks: 1

An abelian group satisfies ---------- property.

Select the correct option

- Associative
- Closure
- Commutative
- Distributive

Click to Save Answer & Move to Next Question

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MTH633:Grand Quiz

Quiz Start Time: 01:43 PM, 09 July 2020

Question # 27 of 30 (Start time: 02:14:03 PM, 09 July 2020)

Total Marks: 1

The order of the group {1, -1, i, -i} is ----------

Select the correct option

- 2
- 3
- 4 
- 5

Click to Save Answer & Move to Next Question

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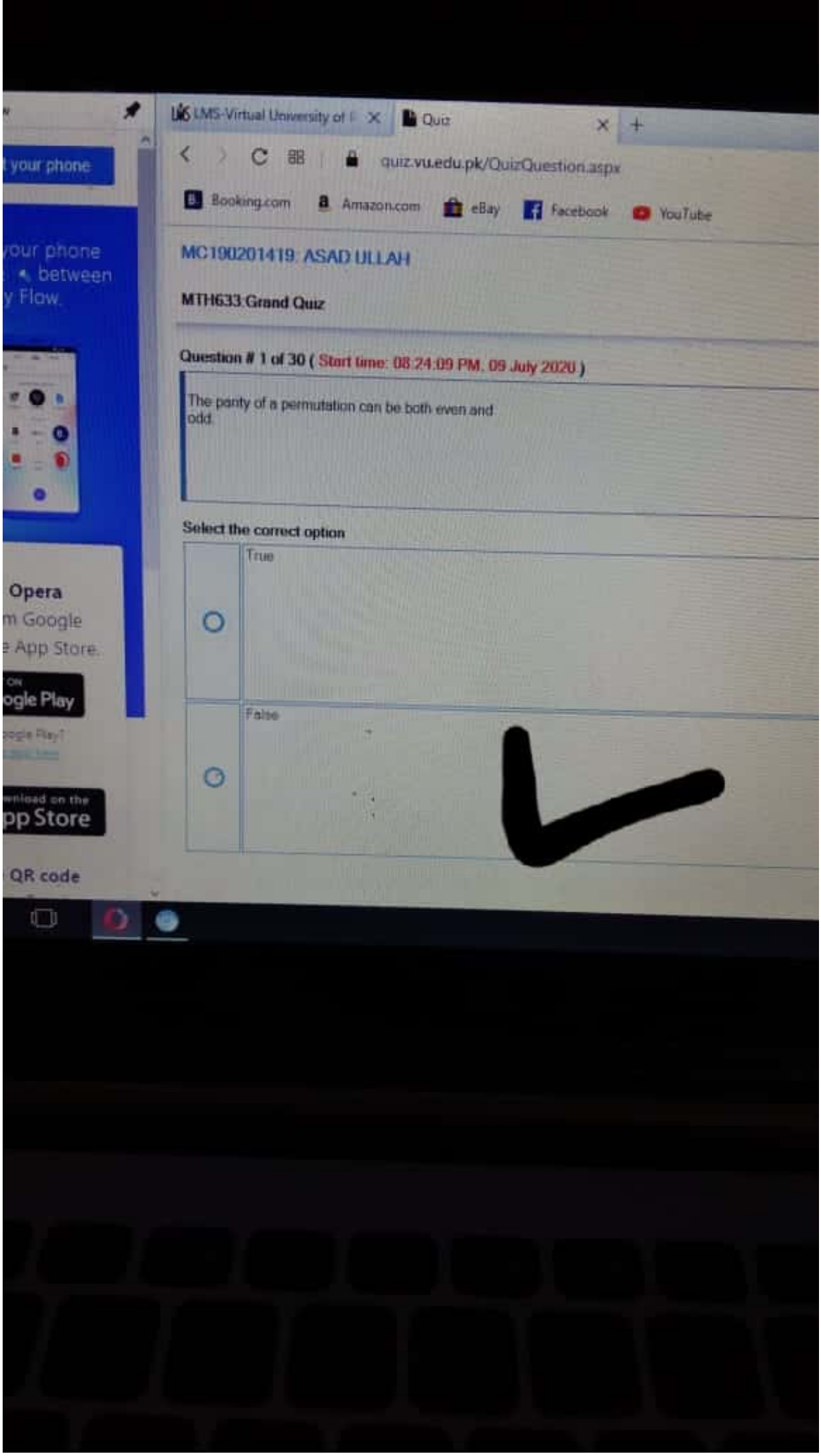

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