Module 2 : Sets, Functions & Relations (?q=onlinecourse/course/43510)

Exercise : Sets

- **วิชชาภัทร จินดานาถ** previously submitted answers to this quiz/test on 17-Oct-2023 @ 10:18:30 and obtained **13** correct answers out of **13** .
- This test/quiz can be taken many times.
- Correct answers will NOT be revealed after submission.

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1 1. Determine whether the following statement is true or false

{a,b,c} = {a,c,b}

From previous attempt

TRUE

FALSE

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2 2. Determine whether the following statement is true or false

$\varnothing \subseteq \{\{\varnothing\},1\}$

From previous attempt

TRUE

FALSE

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3 3. Determine whether the following statement is true or false

$\{\varnothing\} \in \{\{\varnothing\},1\}$

From previous attempt

TRUE

FALSE

---

4 4. Determine whether the following statement is true or false

If $A \cap B = \varnothing$ and $|A| = 3$, B must be an empty set

From previous attempt

TRUE

FALSE

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5 5. Let $C = \{\{\varnothing\},\varnothing,2,\{2\}\}$

Determine whether the following statement is true or false

From previous attempt

$|C \cap P(C)| = 3$

TRUE

FALSE

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6 6. Let $C = \{\{\varnothing\},\varnothing,1,\{2\}\}$

Determine whether the following statement is true or false

From previous attempt

$|C \cup P(\{\varnothing,1\})| = 16$

TRUE

FALSE

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7 7. Let $C = \{\{\varnothing\},\varnothing,1,\{2\}\}$

Determine whether the following statement is true or false

From previous attempt

$\varnothing$ is a member of $(C - P(C))$

TRUE

FALSE

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8 8. Let $U = \{1,2,3,\ldots,19,20\}$
$A = \{x \mid x^2 \notin U\}$
$B = \{x \mid 4x \notin U \wedge x/3 \notin A\}$

From previous attempt

$C = \{x \mid x \in A \wedge x \notin B\}$
Find $|B - A|$

0

3

5

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9 9. Let $U = \{1,2,3,...,19,20\}$
$A = \{x \mid x^2 \notin U\}$
$B = \{x \mid 4x \notin U \wedge x/3 \notin A\}$
$C = \{x \mid x \in A \wedge x \notin B\}$
Find $|A \cap B|$

From previous attempt

14

13

12

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10 10. Let $U = \{1,2,3,...,19,20\}$
$A = \{x \mid x^2 \notin U\}$
$B = \{x \mid 4x \notin U \wedge x/3 \notin A\}$
$C = \{x \mid x \in A \wedge x \notin B\}$
Find $|(A - C) \cup B'|$

From previous attempt

17

20

18

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11 11. Let $U = \{1,2,3,...,19,20\}$
$A = \{x \mid x^2 \notin U\}$
$B = \{x \mid 4x \notin U \wedge x/3 \notin A\}$
$C = \{x \mid x \in A \wedge x \notin B\}$
How many possible set D that $D \cap C$ is an empty set

From previous attempt

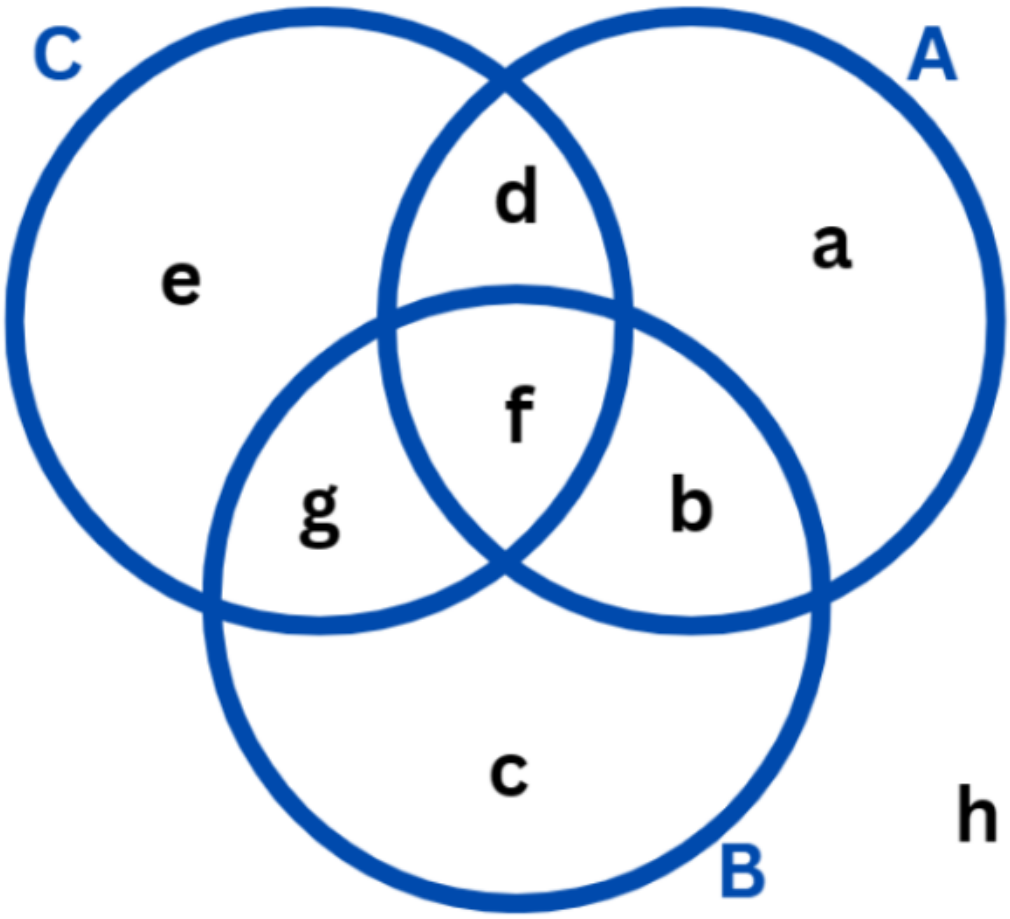
2^17

2^16

2^15

12 12. Which combination of the sets A,B,C will result in the given area

From previous attempt



a,c and h

- a) A' ∩ (B' ∪ C')
- b) A ∩ (B' ∪ C')
- c) C' ∩ (B' ∪ A')

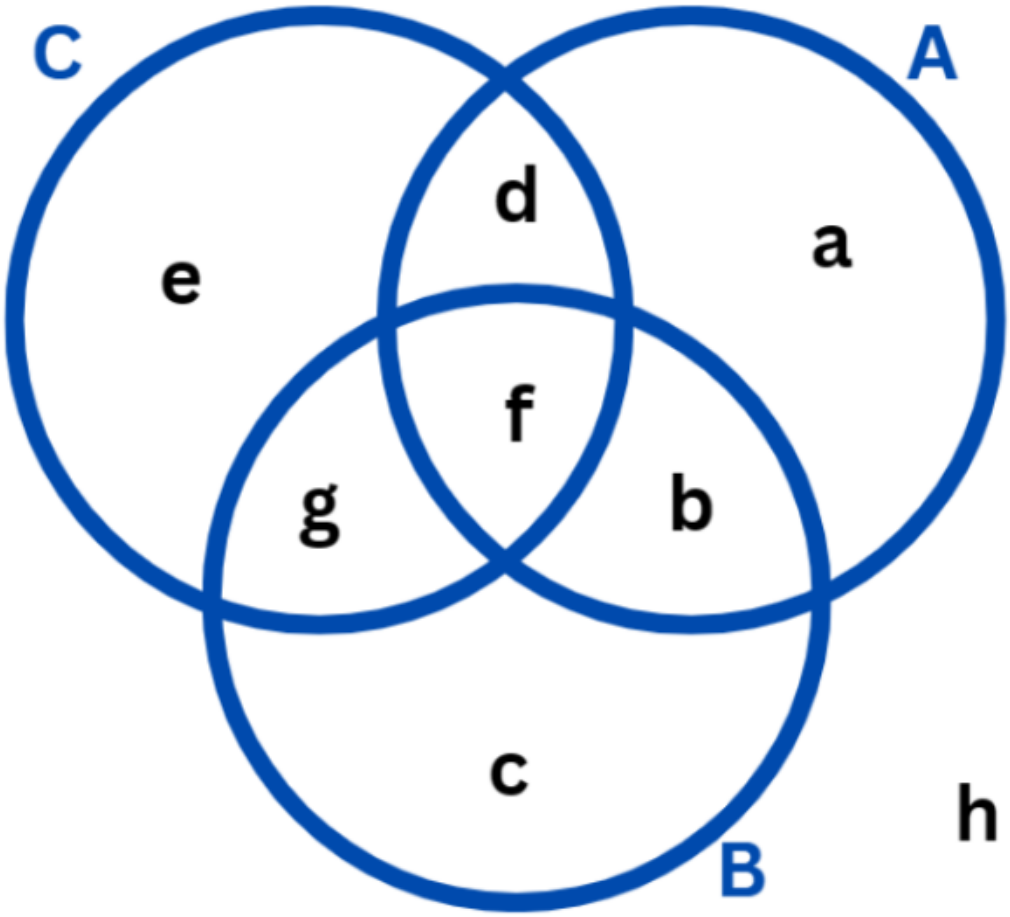
a

b

c

13 13. Which combination of the sets A,B,C will result in the given area

From previous attempt



d,f,a,b,c and h

- a) B' ∪ C'
- b) (A ∪ C')'
- c) (C ∩ A')'

a

b

c

Submit

Previous (?q=onlinecourse/theatre/27027/KVDYqlWU2UW)

Next (?q=onlinecourse/theatre/27028/Y3tRz5MMs84W2Bgb4wb)

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