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Let

m = "Juan is a math major,"

c = "Juan is a computer science major,"

g = "Juan's girlfriend is a literature major,"

h = "Juan's girlfriend has read Hamlet," and

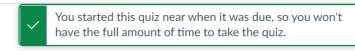
t = "Juan's girlfriend has read The Tempest."

Which of the following expresses the statement "Juan is a computer science major and a math major, but his girlfriend is a literature major who hasn't read both The Tempest and Hamlet."

(in this problem ^ is and, V is or, ~ is negation).

- O c^ m ^ (g ' (~h ' ~t))
- O c ^ m ^ g ^ (~h ^ ~t)
- O c ^ m ^ (g * (~h ^ ~t))
- \bigcirc c m g c (h v t)

_____ c ^ m ^ g ^ (~h * ~t)



Started: Mar 1 at 10:51am

Quiz Instructions

Please answer all questions. Good luck!

NOTE: in some answers, the symbol $^{\land}$ is used to indicate power. For example 2^{\land} 3 =8.

Question 2	1 pts
The function ((p \vee (r \vee q)) $\wedge \sim$ (\sim q $\wedge \sim$ r) is equal to the function	
○ q∨r	
\bigcirc ((p \lor r) \lor q)) \land (p \lor r)	
\bigcirc (p \land q) \lor (p \land r)	
\bigcirc (p \land r) \lor (p \land q)	
\bigcirc (p \vee q) $\land \sim$ (p \vee r)	

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Question 3	1 pts
The Boolean function $[\sim (\sim p \land q) \land \sim (\sim p \land \sim q)] \lor (p \land r)$ is equal to the Boolean function	
O r	
○ p ∨ q	
○ p	
p∧r	
○ q	

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Question 4	1 pts
Consider the statement, "Either $-2 \le x \le -1$ or $1 \le x \le 2$." The negation of this statement is	
○ -2 < x < 2	
○ x < -2 or 2 < x	
→ x < -2 or 2 < x or -1 < x < 1	
○ -1 < x < 1	
$\bigcirc x \le -2 \text{ or } 2 \le x \text{ or } -1 < x < 1$	

Question 5	1 pts
Which of the following is a negation for "For any integer n , if n is composite, then n is even or $n > 2$."	
\bigcirc There exists an integer n such that if n is not composite, then n is not even and n \leq 2.	
\bigcirc For any integer n, if n is composite, then n is not even or n \leq 2.	
\bigcirc For any integer n, if n is not composite, then n is not even and n \leq 2.	
\bigcirc For any integer n, if n is not composite, then n is not even or n \leq 2.	
○ There exists an integer n such that if n is not composite, then n is not even or $n \le 2$.	
\bigcirc For any integer n, if n is not composite, then n is not even and n \leq 2.	
\bigcirc For any integer n, if n is not composite, then n is even and n \leq 2.	
There exists an integer n such that if n is composite, then n is not even and $n \le 2$.	
\bigcirc There exists an integer n such that n is composite and n is not even and n ≤ 2 .	
\bigcirc There exists an integer n such that n is composite and n is even and n \leq 2.	

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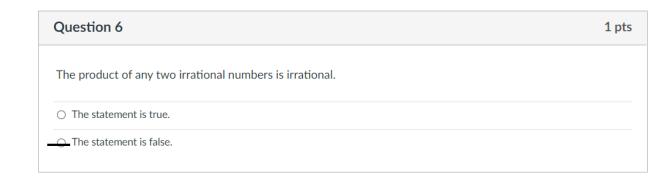
Midterm 1 🗚

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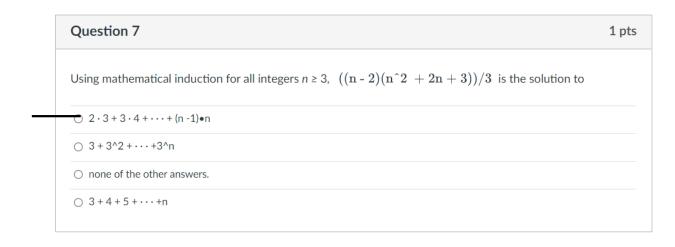
Midterm 1 At

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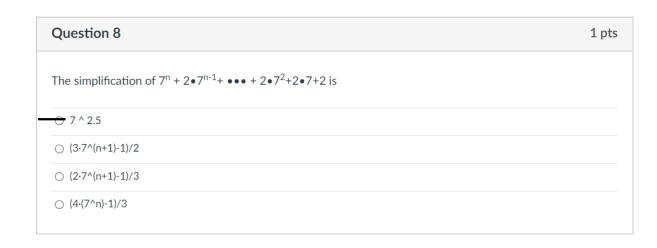


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You started this quiz near when it was due, so you won't have the full amount of time to take the quiz.

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Quiz Instructions

Started: Mar 1 at 10:51am

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NOTE: in some answers, the symbol ^ is used to indicate power. For example 2^ 3 =8.

Question 9	1 pts
Define a function $f: \mathbb{R}^- \{0\} \to \mathbb{R}$ by the formula $f(x) = (x + 3)/x$ for all nonzero real numbers x .	
f violets the function definition.	
○ f is only onto function.	
○ f is only one-to-one function.	
of is both one-to-one and onto function.	
f is neither one-to-one, nor onto function.	

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Question 10	1 pts
By mathematical induction, the series $1^2 + 2^2 + 3^2 + + p^2$ can be proved equivalent to	
○ (p*(p+1)*(2p+1))/6	
○ (p*(p+1))/4	
O None of the other answers.	
○ p+p ²	
$\bigcirc (p^2+2)/7$	

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Question 11	1 pts
A teacher offers ten possible assignments for extra credit in a course but re without looking, from a hat. Six assignments involve library research and fo exercises. Suppose that a student chooses two assignments, one after the o	ur are computer programming
replacement. What is the probability that at least one of the assignments is	a computer programming exercise?
	a computer programming exercise?
replacement. What is the probability that at least one of the assignments is	a computer programming exercise?
replacement. What is the probability that at least one of the assignments is	a computer programming exercise?

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Question 12	1 pts
A screening test for a certain disease is used in a large population of people of whom 1 the disease. Suppose that the false positive rate is 1% and the false-negative rate is 0.5 has the disease tests positive for it 99.5% of the time, and a person who does not have negative for it 99% of the time. What is the probability that a randomly chosen person the disease actually has the disease.	%. Thus a person who the disease tests
the disease actually has the disease?	
→ 0.005%	
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Question 13	1 pts
A certain connected graph has 68 vertices and 72 edges.	
○ The graph is a tree.	
○ The graph cannot have more edges than vertices.	
O The graph is a tree with some vertices having loops.	
The graph has a circuit	

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Please answer all questions. Good luck!

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Question 14 1 pts Suppose that a fair coin is tossed ten times. (a) How many ways can at least eight heads be obtained? (b) What is the probability of obtaining at least eight heads? O 56 and 5.5% O 27 and 2.7% O 27 and 2.6% ○ 8 and 4.5%

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Midterm 1 At

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Question 16	1 p
Determine which pairs of statements are equivalent.	
1. If Proposition 111 passes, freeways are improved.	
2. If Proposition 111 is defeated, freeways are not improved.	
3. If the freeways are improved, Proposition 111 passes.	
4. If the freeways are not improved, Proposition 111 does not pass.	
O 2 and 3	
O 2 and 4	
○ 1 and 3	
1 and 4	

Midterm 1 🗚

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Question 19	1 pts
A personal computer manufacturer buys 38% of its chips from Japan and the rest from America. 1.7% of Japanese chips are defective, and 1.1% of the American chips are defective. a. Find the probability that a chip is defective and made in Japan. b. Find the probability that a chip is defective.	f the
○ 0.121 and 0.0065	
○ .0 2 and 0.0012	
O.006 and 0.0283	
0.00646 and 0.01328	

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