MATH Exam Paper

Subjective Questions

1. What is the Pythagorean theorem and explain its application?			
Answer:			
2. Derive the quadratic formula from the general form of a quadratic equation.			
Answer:			
3. Explain the concept of limits in calculus.			
Answer:			
4. Solve the following system of equations using substitution method: $2x + y = 10$ and $3x - y = 5$.			
Answer:			

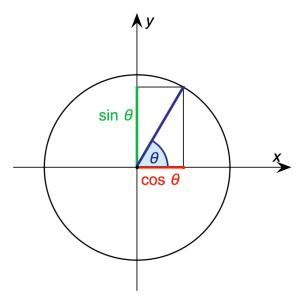
5. What are eige	5. What are eigenvalues and eigenvectors? Provide an example.		
Answer:			
6. Describe the	ifference between permutations and combinations.		
Answer:			
7. What is the fu	ndamental theorem of algebra?		
Answer:			
0.5.1.1			
8. Explain how	ne binomial theorem can be used to expand expressions.		
Answer:			
0. Find the design	stive of the function $f(y) = y \wedge 2 + 5y \wedge 2 + 7$		
9. Find the defiv	ative of the function $f(x) = x^3 + 5x^2 - 2x + 7$.		
Answer:			

10. Explain the concept of mathematical induction and prove the sum formula for the first n integers.		
	Answer:	
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	11. Formula of circle?	
	Answer:	
	7 His Wor.	
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	12. What is the formula of a triangle?	
	12. What is the formula of a triangle?	
	Answer:	
	13. this is a math question	
	Answer:	
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	Answer:	
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	MCQ Questions	

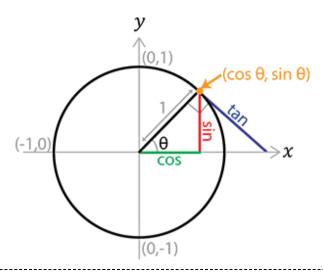
15. What is 2+2?	
a) 3	b) 4
c) 5	d) 6
16. What is 3+5?	
a) 5	b) 6
c) 7	d) 8
17. What is 5*5?	
a) 20	b) 25
c) 30	d) 35
18. What is 10/2?	
a) 3	b) 4
c) 5	d) 6
19. What is 6-3?	
a) 1	b) 2
c) 3	d) 4

Diagram Questions

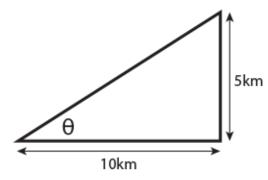
20. What is the structure of a cell?



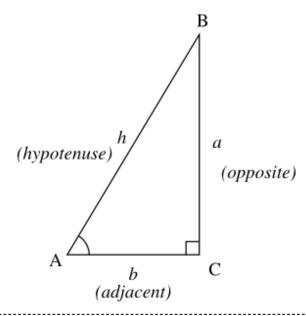
21. Draw the circuit diagram of a series circuit.



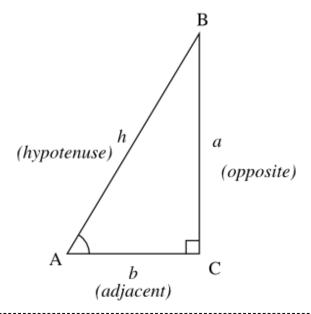
22. Illustrate the water cycle diagram.



23. question-diagram



24. diagram



25. jpeg

