

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 eigenvalues and eigenvectors? Provide an example.

Answer:

6. Describe the difference between permutations and combinations.

Answer:

7. What is the fundamental theorem of algebra?

Answer:

8. Explain how the binomial theorem can be used to expand expressions.

Answer:

9. Find the derivative 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:

11. Formula of circle?

Answer:

12. What is the formula of a triangle?

Answer:

13. abcdefghi

Answer:

14. hjaskfasf

Answer:

15. musadiq balouch

Answer:

16. this is a math question

Answer:

17. question-subj

Answer:

18. subj

Answer:

19. subj-2

Answer:

MCQ Questions

20. What is $2 + 2$?

- a) 4
- b) 5
- c) 6
- d) 7

21. What is $5 * 6$?

- a) 25
- b) 30
- c) 35
- d) 40

22. What is the square root of 16?

- a) 2
- b) 4
- c) 6
- d) 8

23. What is $12 / 4$?

- a) 2
- b) 3
- c) 4
- d) 5

24. What is $9 + 10$?

- a) 18
- b) 19
- c) 20
- d) 21

25. abcdefgjjklm

- a) a
- b) b
- c) c
- d) d

26. this is a math question

- a) a
- b) b
- c) c
- d) d

27. obj

a) a

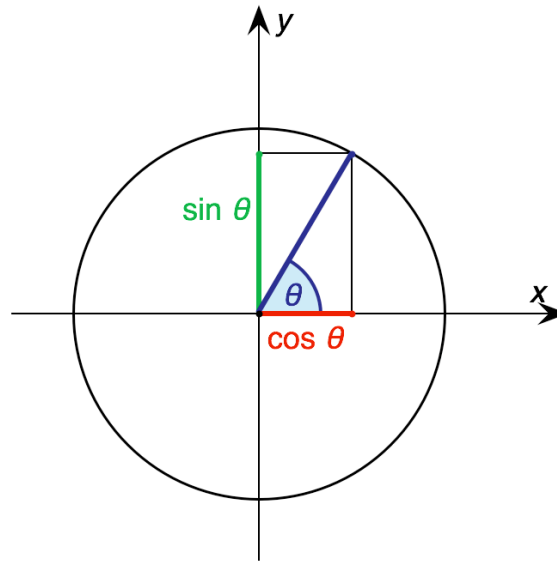
b) b

c) c

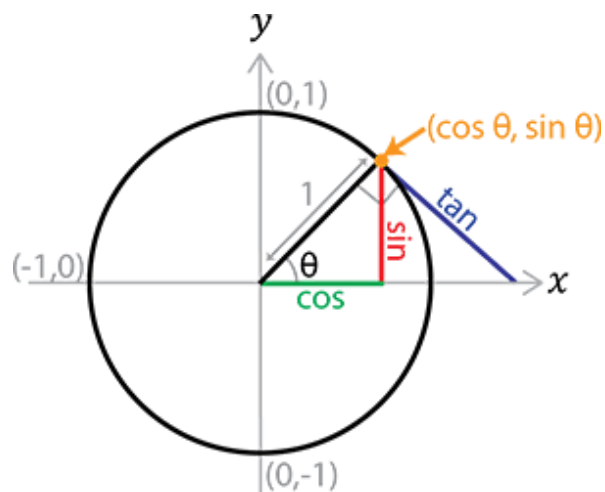
d) d

Diagram Questions

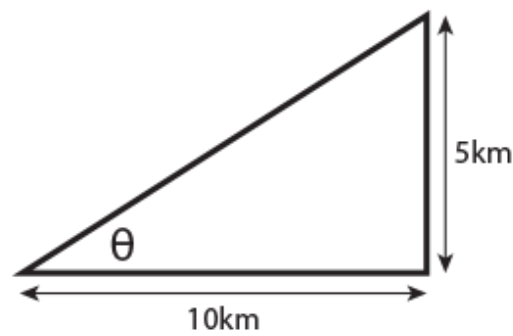
28. What is the structure of a cell?



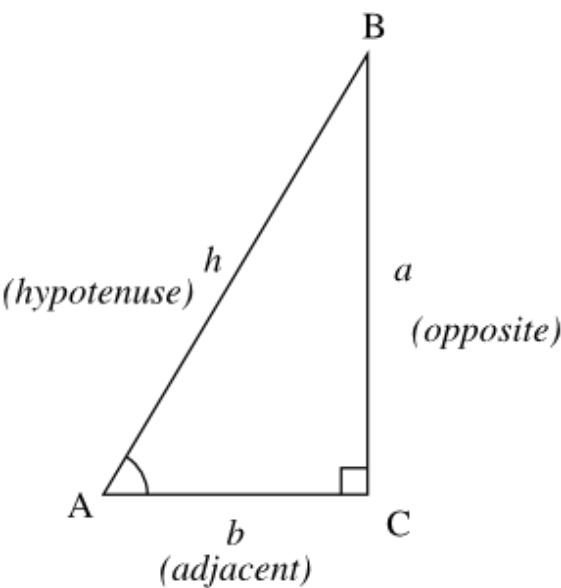
29. Draw the circuit diagram of a series circuit.



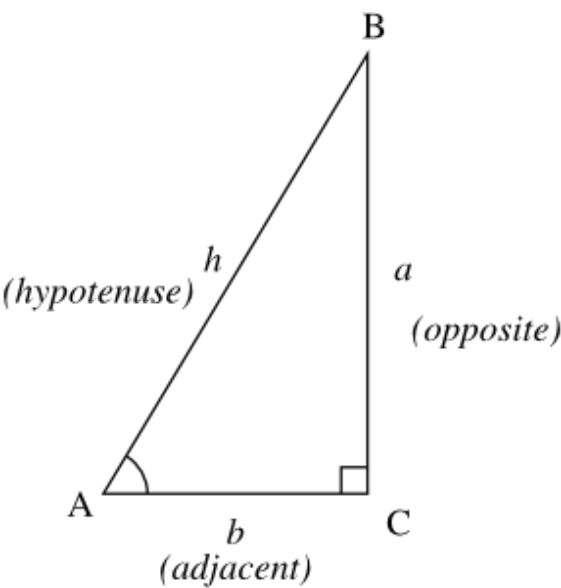
30. Illustrate the water cycle diagram.

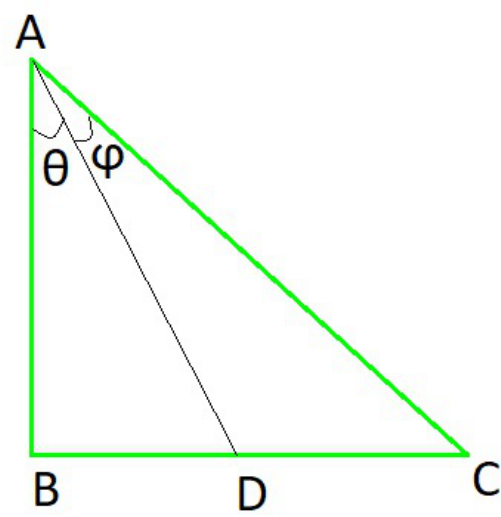


31. question-diagram



32. diagram





34. diag-2

