Assignment 4

Due on 2019-06-25, 23:59 HKT

Unit 6 - Week 4: Unit 4
Course outline

Week 4: Assignment 4

Week 5: Assignment 5

Week 6: Assignment 6

Week 7: Assignment 7

Week 8: Assignment 8

Week 9: Assignment 9

Week 10: Assignment 10

Week 11: Assignment 11

Week 12: Assignment 12

Unit 6: Assignment 2

Week 7: Assignment 3

Week 8: Assignment 4

Week 9: Assignment 5

Week 10: Assignment 6

Week 11: Assignment 7

Week 12: Assignment 8

Answering Questions

1. Given the set of numbers in the following list, what is the sum of the set: [5, 7, 9, 11, 13]?

2. What is the product of the numbers in the set: [2, 4, 6, 8, 10]?

3. Which of the following sets contains only even numbers: {2, 4, 6, 8, 10} or {1, 3, 5, 7, 9}?

4. Find the median of the set: {1, 2, 3, 4, 5}.

5. Find the mode of the set: {1, 2, 2, 3, 4, 5, 5}.

6. Calculate the range of the set: {1, 2, 3, 4, 5, 6}.

7. If the average of the set: {1, 2, 3, 4, 5} is 3, what is the sum of the set?

8. Which of the following is a prime number: 2, 4, 6, 8, or 10?

9. Calculate the percentage of the number 5 in the set: {1, 2, 3, 4, 5, 6, 7}.

10. If a set contains only odd numbers, what is the sum of the set: {1, 3, 5, 7}?


12. What is the value of the expression: 2^3 + 4^2?

13. Simplify the expression: 3x + 5y - 2x + 7y.

14. Solve for x in the equation: 2x + 3 = 7.

15. Factorize the expression: x^2 - 9.

16. Given the equation: y = 2x + 3, find the value of y when x = 4.

17. If the slope of the line is 2 and the y-intercept is 3, what is the equation of the line?

18. What is the area of a square with a side length of 5 units?

19. Calculate the perimeter of a rectangle with a length of 10 units and a width of 5 units.

20. Which of the following statements is true: A) All squares are rectangles. B) All rectangles are squares. C) All parallelograms are rectangles. D) None of the above.

21. Find the area of the triangle with vertices at (0, 0), (5, 0), and (0, 3).

22. Calculate the volume of a cube with a side length of 4 units.

23. What is the surface area of a cylinder with a radius of 3 units and a height of 5 units?

24. If the circumference of a circle is 20π, what is the radius of the circle?

25. What is the equation of a line passing through the points (0, 0) and (8, 4)?