

QUESTION 1

Answer the questions below.

Write your answers in the spaces provided.

1. **What is a function?**

A function is a mapping from a set of inputs to a set of outputs, where each input has exactly one output.

For example, the function $f(x) = 2x + 1$ maps the input $x = 3$ to the output $f(3) = 7$. The function $f(x) = x^2$ maps the input $x = 2$ to the output $f(2) = 4$.

2. **What is a linear function?**

A linear function is a function that can be written in the form $f(x) = ax + b$, where a and b are constants. The graph of a linear function is a straight line. For example, the function $f(x) = 3x + 2$ is a linear function.

3. **What is a quadratic function?**

A quadratic function is a function that can be written in the form $f(x) = ax^2 + bx + c$, where a , b , and c are constants. The graph of a quadratic function is a parabola.

For example, the function $f(x) = x^2 + 2x + 1$ is a quadratic function. The graph of this function is a parabola that opens upwards with its vertex at $(-1, 0)$.

The function $f(x) = x^2 - 4x + 4$ is a quadratic function. The graph of this function is a parabola that opens upwards with its vertex at $(2, 0)$.

Answer:

1. The following are the steps to be followed:

2. The following are the steps to be followed:

3. The following are the steps to be followed:

4. The following are the steps to be followed:

5. The following are the steps to be followed:

6. The following are the steps to be followed:

7. The following are the steps to be followed:

8. The following are the steps to be followed:

9. The following are the steps to be followed:

10. The following are the steps to be followed:

11. The following are the steps to be followed:

12. The following are the steps to be followed:

13. The following are the steps to be followed:

14. The following are the steps to be followed:

15. The following are the steps to be followed:

16. The following are the steps to be followed:

17. The following are the steps to be followed:

18. The following are the steps to be followed:

19. The following are the steps to be followed:

20. The following are the steps to be followed:

21. The following are the steps to be followed:

22. The following are the steps to be followed:

23. The following are the steps to be followed:

24. The following are the steps to be followed:

25. The following are the steps to be followed:

Question 10

What are the components of the cost of capital?

Cost of capital is the weighted average of the cost of debt and the cost of equity.

Components of the cost of capital are: the cost of debt, the cost of equity, and the cost of preferred stock. The cost of debt is the interest rate on the company's debt, the cost of equity is the return on the company's equity, and the cost of preferred stock is the dividend rate on the company's preferred stock.

Question 11

What is the difference between the cost of debt and the cost of equity?

	Cost of Debt	Cost of Equity
Debt	Interest rate on debt	Return on equity
Equity	Dividend rate on equity	Return on debt

Question 12

What is the difference between the cost of debt and the cost of equity?

	Cost of Debt	Cost of Equity
Debt	Interest rate on debt	Return on equity
Equity	Dividend rate on equity	Return on debt

Question 13

What is the difference between the cost of debt and the cost of equity?

Cost of Debt	Return on Equity
Cost of Equity	Return on Debt
Cost of Preferred Stock	Return on Preferred Stock

Section 1

1.1 Introduction

1.1.1 Overview

1.1.2 Objectives

1.1.3 Scope

1.1.4 Definitions

1.1.5 References

1.1.6 Summary

1.1.7 Conclusion

1.1.8 Appendix

1.1.9 Glossary

1.1.10 Index

1.1.11 Bibliography

1.1.12 Acknowledgements

1.1.13 Disclaimer

1.1.14 Contact Information

1.1.15 Revision History

1.1.16 Change Log

1.1.17 Approval

1.1.18 Signatures

1.1.19 Date

1.1.20 Page