

# Maths Paper Solution Prompt

Create a comprehensive GTU Mathematics paper solution following these guidelines:

## Structure:

- Use clean headings: Q.1 [marks], Q1.1 [marks] (no long text in headings)
- Put full questions in **bold** below headings
- Include complete questions before solutions
- Solve all OR questions

## Content:

- Comprehensive step-by-step solutions for weak students
- No word count restrictions for math papers
- Detailed mathematical reasoning with proper LaTeX formatting, so that it renders properly in hugo with Katex, pandoc can covert proper pdf using xelatex, and it renders properly in github pages.
- Tables/diagrams where helpful

## Format:

```
## Q.1 [14 marks]
**Fill in the blanks using appropriate choice from the given options**

### Q1.1 [1 mark]
**If  $f(x) = \frac{1}{x}$ , then the value of  $f(1)$  is __.**

**Answer**: b. 1

**Solution**:
 $f(x) = \frac{1}{x}$ 
 $f(1) = \frac{1}{1} = 1$ 
```

## End with:

- Complete formula cheat sheet
- Problem-solving strategies
- Common mistakes to avoid
- Exam tips

Keep TOC clean, solutions comprehensive.