# Math Question Bank Template

## Instructions:

1. Each question should start with 'Question X' where X is the question number

2. Write the question content after the question number

3. Specify Source (HKDSE, HKCEE, HKALE, School Exam, School Mock, Textbook) after the question content

4. Specify Topic (e.g., Quadratic Equations, Trigonometry, etc.) after the Source

5. Specify Question Type (Conventional or MC) after the Topic

6. For multiple choice questions, add options with (a), (b), (c), etc.

7. End with Correct Answer: [option letter or answer]

## Example Questions:

### Question 1

Solve the quadratic equation: $x^2 + 5x + 6 = 0$
Show your working and find the values of x.

Source: HKDSE

Topic: Quadratic Equations

Question Type: Conventional

Correct Answer: x = -2, x = -3

### Question 2

What is the derivative of $f(x) = 3x^2 + 2x - 1$?

Source: HKDSE

Topic: Calculus

Question Type: Conventional

Correct Answer: 6x + 2

### Question 3

In a right-angled triangle, if the hypotenuse is 5 units and one side is 3 units, what is the length of the other side?

Source: School Exam

Topic: Geometry

Question Type: MC

(a) 4 units

(b) 6 units

(c) 8 units

(d) 10 units

Correct Answer: a