**Solving Quadratic Equation**

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## Why learn?

* As the title implies, learning to solve quadratic equation

## Introduction

## Type of quadratic equation

|  |  |
| --- | --- |
| 1 No linear Term | e.g. 1  e.g. 2 Solve: |
| 2 No constant Term (Do not divide by x, as it will become a linear equation, meaning, loss of information) | e.g. 1 |
| 3 Solve by Factorization | e.g. 1 |
| 4 Completed Square form | e.g. 1  e.g. 2 |

|  |  |
| --- | --- |
| 5 Solve by Completing Square | e.g. 1  Condition: |
| 6 Solve by Formulae (always works, but use it for last resort, extensive calculation) | Prove (Solve by using **Type 5 Completing square**): |

## Exercise – Solve by completing Square (type 5)

|  |  |
| --- | --- |
| 1 |  |
| 2 |  |