## Year 10 Mathematics Learning Journey: Unit 16 - Manipulating Expressions

| Step 10: Algebraic Proof |  |
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| Why is one counterexample <br> enough to disprove a statement <br> but one example not enough to <br> prove a statement? |  |
| Step 9: Represent <br> numbers algebraically |  |

Step $8(H)$ : Solve equations with algebraic fractions

Why do you need to equate a quadratic expression to zero to solve a quadratic equation?

Step 7: Equations and inequalities with fractions

What do we mean by "strict" inequality? factors of the numerator and denominator?

| Step $6(H): x / \div$ complex |
| :---: |
| algebraic fractions |
| Why does it help to look for <br> factors of the numerator and <br> denominator? |


| Step $4(H):+/$ - complex <br> algebraic fractions |
| :---: |
| When are brackets | important when finding the lowest common

 denominator of a set of algebraic fractions?

How can you tell if an algebraic fraction is in its simplest form?

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