

Stage 11 - Solving Equations and Inequalities II



- Sketch a graph and find the roots of a quadratic function
- Solve two linear simultaneous equations in two variables by substitution and elimination
- Use set notation to list a set of integers.
- Solve an inequality on a number line



- Solve inequalities
- Solve simultaneous equations

- Unknown - "quantity that can vary in value," 1816
- Variable
- Manipulate
- Solve - from Latin solvere "to loosen, dissolve; untie, release, explain"
- Solution Set
- Inequality
- Simultaneous
- Equation
- Substitution
- Elimination

Solving Equations and Inequalities II - Targets

Before Topic	After Topic	Teacher Mark
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Solve a quadratic inequality ($a = 1$)		
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Solve a quadratic inequality ($a > 1$)		
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Solve simultaneous equations in two variables where one is a simple quadratic equation using substitution		
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Solve simultaneous equations in two variables where one is a more complex quadratic equation using substitution		
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Make connections between simultaneous equations and graphs		
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Solve problems involving linear and quadratic simultaneous equations		
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