

## Section 3: The modulus function

### Crucial points

1. **Check that you have the right number of solutions**

Be careful when solving equations involving a modulus function that you have the correct number of solutions. Sketching a graph is helpful, and you should also check your solution(s) by substituting back into the original equation.

2. **Take care with inequality signs, especially when they involve negative numbers**

When solving inequalities involving a modulus sign, be very careful with the inequality symbol. Remember that you need to reverse it if you are multiplying or dividing through by a negative number. Check your answer by substituting a number from within the solution set into the original inequality.