

## **B3 Quadratic Equations and Functions**

### **Lesson Plan 2: worksheet 1**

#### **Questions**

1. Solve the following inequalities:

i.  $x^2 + 2x - 35 > 0$

ii.  $-x^2 + 9x - 14 \geq 0$

iii.  $3x^2 - 5x - 1 < 4x^2 + 7x + 19$

2. Find the ranges of the values of  $x$  for which  $x^2 - 4x + 2$  lies between -1 and +1.

3. Find the set of values of  $x$  for which  $x^2 - 2x - 24 < 0$  and  $12 - 5x \geq x + 9$ .