

Algebra 16 Modulus Graphs

Example 1

Draw the graph of the function $f(x) = |x + 1|$, in the domain $-3 \leq x \leq 3$

Example 2

Draw the graph of $f(x) = |x - 2|$

Question 1

Draw the graphs of $f(x) = |x - 3|$ and $g(x) = 2$ on the same co-ordinate grid.

Hence, find the range of values of x for which:

- (i) $f(x) > g(x)$
- (ii) $g(x) > f(x)$

Question 2:

Draw the graphs of $h(x) = |2x + 5|$ and $g(x) = 3$ on the same co-ordinate grid.

Hence, find the values of x for which $h(x) = g(x)$.