2E Part 1 Quadratics as a Function

- 1. The function f and g are given by f(x) = 2x 10 and $g(x) = x^2 9$, $x \in \mathbb{R}$.
- a) Find the values of f(5) and g(10)

b) Find the value of x for which f(x) = g(x)

- 2. The function f is defined as $f(x)=x^2+6x-5,\ x\in\mathbb{R}.$ a) Write f(x) in the form $(x+p)^2+q$

b) Hence, or otherwise, find the roots of f(x), leaving all your answers in surd form

c) Write down the minimum value of f(x) and state the value of x for which it occurs