**2E Part 1 Quadratics as a Function**

1. The function f and g are given by $f\left(x\right)=2x-10$ and $g\left(x\right)=x^{2}-9$, $x\in R$.
2. Find the values of $f(5)$ and $g(10)$
3. Find the value of $x$ for which $f(x)=g(x)$
4. The function f is defined as $f\left(x\right)=x^{2}+6x-5,  x\in R$.
5. Write $f(x)$ in the form $\left(x+p\right)^{2}+q$
6. Hence, or otherwise, find the roots of $f(x)$, leaving all your answers in surd form
7. Write down the minimum value of $f(x)$ and state the value of $x$ for which it occurs