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

1. The function f and g are given by and , .
2. Find the values of and
3. Find the value of for which
4. The function f is defined as .
5. Write in the form
6. Hence, or otherwise, find the roots of , leaving all your answers in surd form
7. Write down the minimum value of and state the value of for which it occurs