

**13.** For a function,  $f$ , defined on the set of real numbers,  $\mathbb{R}$ , it is known that

- the rate of change of  $f$  with respect to  $x$  is given by  $3x^2 - 16x + 11$
- the graph with equation  $y = f(x)$  crosses the  $x$ -axis at  $(7,0)$ .

Express  $f(x)$  in terms of  $x$ .