

**10.** (a) Show that  $(x + 5)$  is a factor of  $x^4 + 3x^3 - 7x^2 + 9x - 30$ . **2**

(b) Hence, or otherwise, solve  $x^4 + 3x^3 - 7x^2 + 9x - 30 = 0$ ,  $x \in \mathbb{R}$ . **5**