1. **In this question you must show all stages of your working.**

Solutions relying on calculator technology are not acceptable.

(a) Find the values of x that satisfy

(i) $2x - 10 < 3(5 - x)$

(2)

(ii) $x^2 - 11x + 24 \leqslant 0$

(2)

(b) Hence find the values of x that satisfy both

$$2x - 10 < 3(5 - x) \quad \text{and} \quad x^2 - 11x + 24 \leqslant 0$$

(1)