(1) [10 points] Neatly sketch the graph of the function

$$f(x) = \begin{cases} -2x + 3 & \text{if } x < 1\\ 3x - 2 & \text{if } x \ge 1. \end{cases}$$

and state the domain and range of f based on your graph.

(2) [5 points] Sketch the graph of $h(x) = \sqrt{x-2}$.

(3) [5 bonus points] Factor completely:

 $12x^2 - 11x - 15$