

- (a) Find the set of all real values of x for which $2x^2 + x - 15 \geq 0$.

(10 marks)

LC 2013

- (b) Find the set of all real values of x for which $\frac{2x-5}{x-3} \leq \frac{5}{2}$.

(10 marks)

LC 2012

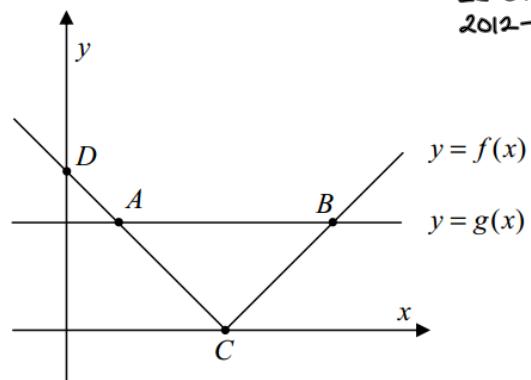
The graphs of the functions $f : x \mapsto |x - 3|$ and $g : x \mapsto 2$ are shown in the diagram.

- (i) Find the co-ordinates of the points A, B, C and D .



$$A = (\quad , \quad) \quad B = (\quad , \quad)$$

$$C = (\quad , \quad) \quad D = (\quad , \quad)$$



- (ii) Hence, or otherwise, solve the inequality $|x - 3| < 2$.

(15 Marks)
LC SAMPLE
2012-2014