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Simultaneous Inequalities | Past Paper Question | Edexcel Core Maths C1 June 2010 Q3

(a) $3(x-2) < 8-2x$
 $\therefore 3x - 6 < 8 - 2x$
 $\therefore 5x < 14$
 $\therefore x < \frac{14}{5}$

(b) $(2x-7)(1+x) < 0$
Critical values:
 $2x-7=0$ or $1+x=0$
 $\therefore x = \frac{7}{2}$ or $x = -1$

\therefore from the graph
 $-1 < x < \frac{7}{2}$

(c)

$-1 < x < \frac{14}{5}$

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