



Air maths tuition

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Linear / Quadratic inequalities

| Past Exam Question | C1 Edexcel June 2013

Q5

Find the set of values of x for which

(a) $2(3x+4) > 1-x$ (2)

(b) $3x^2+8x-3 < 0$ (4)

(a) $2(3x+4) > 1-x$
 $\therefore 6x+8 > 1-x$
 $\therefore 7x > -7$
 $\therefore x > -\frac{7}{7}$
 $\therefore x > -1$

(b) $3x^2+8x-3 < 0$
 $\therefore (3x-1)(x+3) < 0$
Critical values are when
 $3x-1=0$ or $x+3=0$
 $\therefore x=\frac{1}{3}$ or $x=-3$

\therefore from the graph $-3 < x < \frac{1}{3}$

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