Air maths tuition

Interact, engage and perform

Modulus Inequalities (3)

$x+6 > |3x+2|$

$x+6>0$

$\therefore x>-6$

$(x+6)^2 > (3x+2)^2$

$\therefore x^2+12x+36 > 9x^2+12x+4$

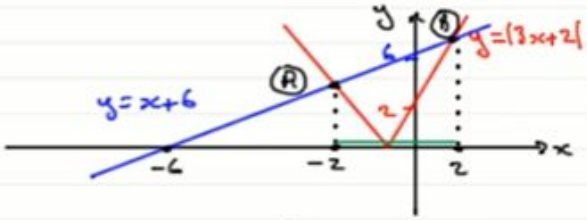
$\therefore 0 > 8x^2-32$

$\therefore 0 > x^2-4$

$\therefore x^2-4<0$

$\therefore (x-2)(x+2)<0$

$\therefore$ c'vs $x=2,\ x=-2$



(A): $x+6=-3x-2$

$\therefore 4x=-8$

$\therefore x=-2$

(B): $x+6=3x+2$

$\therefore 4=2x$

$\therefore x=2$

$-2<x<2$

With the acknowledgement of Exam Solutions.

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