Assignment-1

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1-b[ICSE 2014]

find the values of x for which it satisfies the equation -$2\frac{5}{6} \leq \frac{1}{2}$ - $\frac{2x}{3} \leq 2$

Solution

let us solve the equation
The equation is given by
-$2\frac{5}{6} \leq \frac{1}{2}$ - $\frac{2x}{3} \leq 2$

-$\frac{17}{6} \leq -\frac{2x}{3} \leq 2$

-$\frac{10}{3} \leq -\frac{2x}{3} \leq \frac{3}{2}$

multiplying - on all the sides,

-$\frac{3}{2} \leq \frac{2x}{3} \leq \frac{10}{3}$

-$\frac{9}{2} \leq 2x < 10$

-$\frac{9}{4} \leq x < 5$
as x$\in$
$Wi.ewholenumbersweshouldconsiderourlowerboundas0$
so values of x are : $0 \leq x < 5$