

LINEAR INEQUALITIES Assignment

Express the following intervals as sets

1. $[2, 5]$
2. $(-3, 2]$
3. $[1, 8)$
4. $(0, \infty)$
5. $(-\infty, 4]$

Express the following sets as intervals

6. $\{x|x \in R, x < 1\}$
7. $\{x|x \in R, 0 \leq x \leq 4\}$
8. $\{x|x \in R, x \geq 5\}$
9. $\{x|x \in R, 1 \leq x < 6\}$

Solve the following inequalities and graph its solution

10. $2x + 1 \leq 7$
11. $\frac{3x-4}{2} > 5$
12. $2(x - 6) < x - 10$
13. $9x + 8 \leq 3x - 2$
14. $6(2x - 1) \geq 4(x + 5)$