

LINEAR INEQUALITIES Bell Work

Express the following intervals as sets

1. $[-3, 8]$
2. $(2, 7]$
3. $[-1, 5)$
4. $(6, \infty)$

Express the following sets as intervals

5. $\{x|x \in R, x < 4\}$
6. $\{x|x \in R, -1 \leq x \leq 6\}$
7. $\{x|x \in R, 2 \leq x < 9\}$

Solve the following inequalities and graph its solution

8. $7x + 2 > 16$
9. $4(x + 6) < 2(x - 1)$
10. $x - 4 \leq \frac{1}{2}$
11. $\frac{5x+2}{3} \geq 1$