

Section 2-11 : Linear Inequalities

For problems 1 – 6 solve each of the following inequalities. Give the solution in both inequality and interval notations.

1. $4(z+2)-1 > 5-7(4-z)$

2. $\frac{1}{2}(3+4t) \leq 6\left(\frac{1}{3}-\frac{1}{2}t\right)-\frac{1}{4}(2+10t)$

3. $-1 < 4x+2 < 10$

4. $8 \leq 3-5z < 12$

5. $0 \leq 10w-15 \leq 23$

6. $2 < \frac{1}{6}-\frac{1}{2}x \leq 4$

7. If $0 \leq x < 3$ determine a and b for the inequality : $a \leq 4x+1 < b$

