

Sets and Compound Inequalities HW

Name: _____

Write each of these sets in the three notations, if possible.

1) $\{1, 2, 3, 4, 5, \dots\}$ ← Roster Form
← Interval Notation
← Set Builder Notation

2) $[-4, +\infty)$ ← Interval Notation
← Set Builder Notation
← Roster Form

3) $\{x \mid x \leq -3\}$ ← Set Builder Notation
← Interval Notation
← Roster Form

Graph the following solution sets and write your answer using 2 different notation forms.

4) $x > -1$ and $x < 6$

5) $-3h + 4 < 19$ and $7h - 3 > 4$ * solve and then graph

6) $x > 1$ and $x < 10$