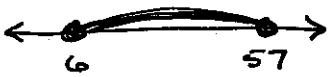
Homework - Solving Compound Inequalities #2

Solve and graph. Then describe the solution set in interval notation.

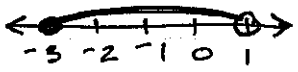
1) $5 \leq \frac{1}{3}x + 3 \leq 22$

$6 \leq x \leq 57$ $\quad [6, 57]$



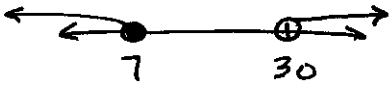
2) $-1 \leq 1 - 2x < 7$

$-3 \leq x < 1$ $\quad [-3, 1)$



3) $x - 5 \leq 2$ *or* $\frac{2}{3}x - 2 > 18$

$x \leq 7$ OR $x > 30$ $\quad (-\infty, 7] \cup (30, \infty)$



4) $3 - x \geq -1$ *or* $2x + 1 > 11$

$x \leq 4$ OR $x > 5$ $\quad (-\infty, 4] \cup (5, \infty)$