COMPOUND INEQUALITIES — HOMEWORK

Solve and graph the following inequalities. Write your answers in interval notation.

1) $3x - 4 \leq 5 \ or \ 2x - 6 > 6$	2) $-5 \leq 3 - 2x < 11$
3) $-3 < 3 + m \leq 7$	4) $2r + 8 > 16 - 2r \ and \ 7r + 21 < r - 9$
5) $3n + 10 \leq 13 \ or \ 2n \geq 5n - 12$	6) $4m - 5 > 7 \ or \ 4m - 5 < -9$
7) $10 - 2p > 12 \ and \ 7p < 4p + 9$	8) $6 - c > c \ or \ 3c - 1 < c + 13$
9) The sum of four times a number and eight is between zero and twelve.	10) About 20% of the time you sleep is spent in rapid eye movement (REM) sleep, which is associated with sleep. If an adult sleeps 7 to 8 hours, how much time Is spent in REM sleep?