

Inequalities: **Order Matters!**

Variable	inequality symbol	constant
x	\geq	7

7 \leq x

A reminder!

$$4 < b$$

$$b > 4$$

Apr 10-8:07 AM

Example 1 Solving an Inequality

a) Solve the inequality: $6.2 \leq x - 4.5$ b) Verify the solution. c) Graph the solution.

a) $6.2 \leq x - 4.5$
 $+4.5 \quad +4.5$
 $10.7 \leq x$
 $x \geq 10.7$

b) $x = 11$
 $6.2 \leq x - 4.5$
 $6.2 \leq 11 - 4.5$
 $6.2 \leq 6.5 \checkmark$

Feb 18-9:29 PM

Practice:

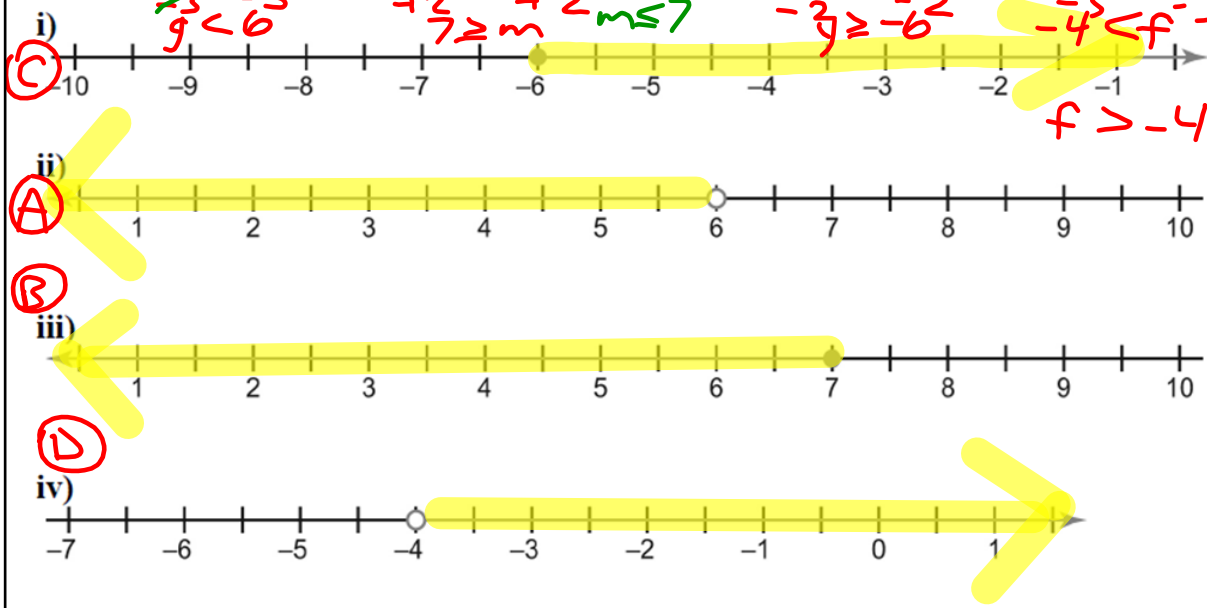
1. Match each inequality with the graph of its solution.

a) $g + 3 < 9$
 $g < 6$

b) $5 \geq m - 2$
 $7 \geq m$ $m \leq 7$

c) $2 + y \geq -4$
 $y \geq -6$

d) $-1 < f + 3$
 $-4 < f$
 $f > -4$



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$$\begin{aligned}
 9.a) \quad & 4t - 19 < 24 + 3t \\
 & +19 \quad +19 \\
 & 4t < 43 + 3t \\
 & -3t \quad -3t \\
 & t < 43
 \end{aligned}$$

Apr 13-10:40 AM