

Solving Multi-Step Inequalities

Example 1

Solve each of the following:

Review: $4x + 11 = 35$



New: $4x + 11 > 35$



Practice the following before moving on to the next example:

Page 365 #3ab, 4ab

Example 2

Solve each of the following:

Review: $\frac{x}{4} + 3 = 8$



New: $\frac{x}{4} + 3 \leq 8$



Practice the following before moving on to the next example:

Page 365 #3c, 4c

Example 3

Solve each of the following and verify the solution:

Review: $5 - 2x = 10x + 29$



New: $5 - 2x \geq 10x + 29$



Practice the following before moving on to the next example: Page 365 # 6abc, 7abc

Example 4

Solve each of the following:

Review: $-1 = -\frac{1}{4}(1 - 2y)$



New: $-1 \geq -\frac{1}{4}(1 - 2y)$



Practice the following: Page 365 # 6d, 7d