

Name: _____

College Algebra: Quiz #3 (Solutions)

1. Find all solutions of the following inequality.

$$3x - 2 \geq 9 \quad \text{or} \quad 4x - 6 \leq 15$$

Solution: This is a compound inequality constructed using “or”, so we will solve each simple equation by itself and then combine the results.

In this case, the solution of the left equation is $x \geq 11/3$ and the solution of the right equation is $x \leq 21/4$. So the solution of the compound inequality is all x such that $x \geq 11/3$ or $x \leq 21/4$