3.7 (page 110) Solving Inequalities: Adding and Subtracting

<u>Recall:</u>

An inequality is a mathematical sentence that contains one of these symbols:

 $\langle , \rangle, \langle \langle , \rangle \rangle$

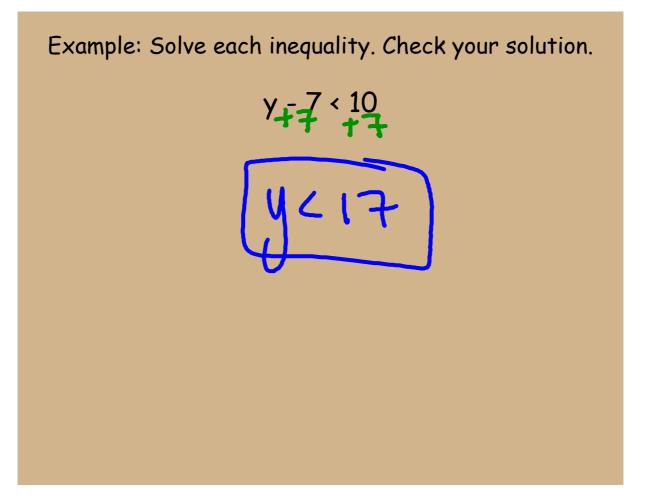
The same steps used to solve equations are used to solve inequalities.

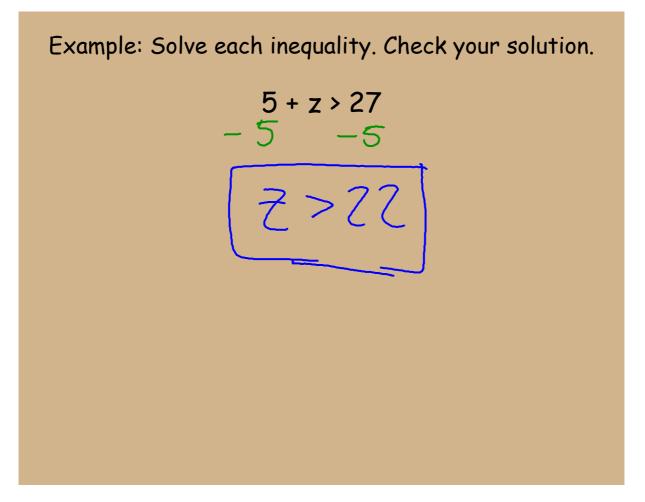
* Variable comes first in answer *

3.7 (page 110) Solving Inequalities: Adding and Subtracting

Addition and Subtraction Properties of Inequalities:

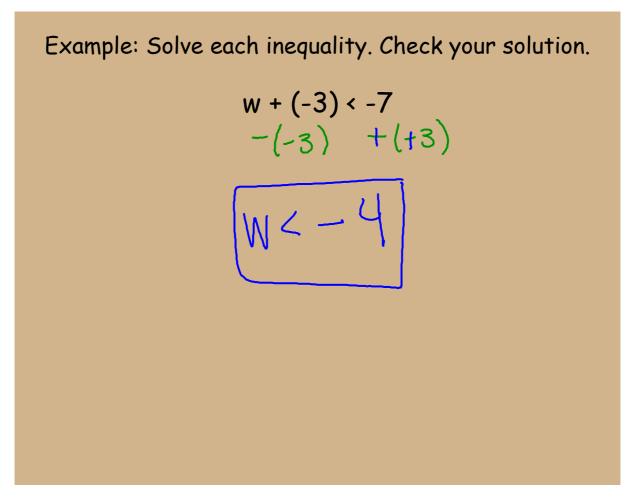
Adding or subtracting the same number from each side of an inequality does not change the truth of the inequality.

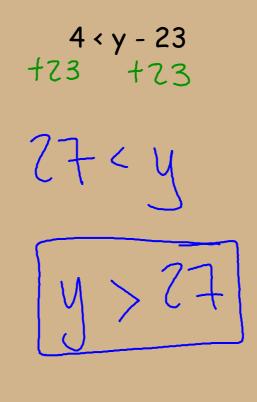


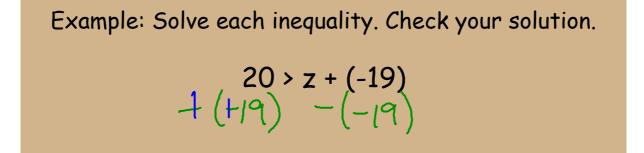


$$-7 + b < -5$$

 $-(-7) + (+7)$
 $b < 2$







2 < 39

39>7

$$\frac{1}{(-5)} - 6$$

$$\frac{1}{(-5)} + (-5)$$

$$-41 > r - (-8) + (-8)$$

