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Pre-Calculus 11

7.2 Quadratic Inequalities in One Variable – Solving Graphically

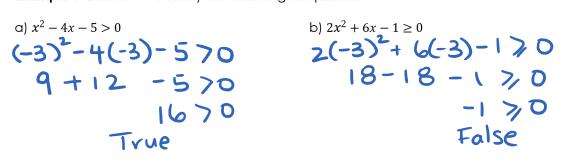
A quadratic inequality with one variable may be in one of the following forms:

ax+bx+c70 ax2+bx+c>0

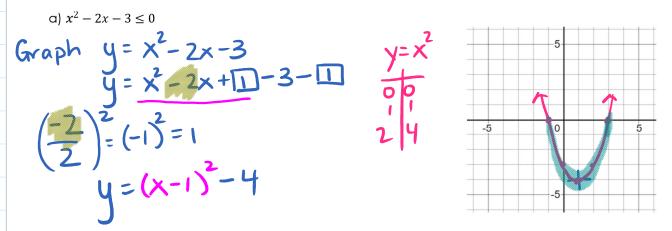
 $ax^2+bx+c<0$ $ax^2+bx+c\leq0$

Where a, b and c are real numbers and $a \neq 0$.

Example 1: Does x = -3 satisfy the following inequalities?



Example 2: Solve graphically. Express your final answer in set notation and in interval notation.



when is the parabola below or on the x-axis

$$[-1,3]$$
 interval notation

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