BST260_HW0

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Question 1:

Given a quadratic equation $f(x) = ax^2 + bx + c = 0$ where a is 1, b is -1 and c is -2. First, calculate the discriminant. If the discriminant is above 0, it has 2 answers; if the discriminant is 0, it has 1 answer; if the discriminant below 0, it has zero answer. Answers are calculated by these formula: $(-b + \sqrt{(b^2 - 4 * a * c)})/(2 * a) = 2$ and$(-b - \sqrt{(b^2 - 4 * a * c)})/(2 * a) = -1$

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[1] "This quadratic equation's discriminant is 9 and the two answers are 2 and -1"
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Question 2:

The graph for with the range of x (-5,5) is shown below: