

Test 2: Take Home Test Questions (PreCalc) Name _____

1. Show evidence of "completing the square" in order to solve the following polynomial equation

$$-3x^2 + 18x - 19 = 0$$

Roots: _____

2. Solve the following polynomial inequality.
You intervals / regions will be given in terms of "a" and "b"
"a" and "b" are both positive real numbers; $a < b$

$$(x - a)(x + b) > 0$$

Final Solution(s): _____

3. Given that a and b are nonzero real numbers determine the solutions of each equation.

$$ax^2 + bx = 0$$

$$ax^2 - ax = 0$$

Roots: _____

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