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3. It would just be $[0, 1]$
4. I would write it such that $\text{function}(b, x)$ returns $\ln(x) / \ln(b)$. In the case of negative numbs, I would return 0 or null if applicable, and report that the equation could not be processed in the terminal
5. $x = -1$, or $x = -2$
6. See the attached java project
8. One example is if $a = (-1, 0, 0)$, $b = (0, 1, 0)$ and $c = (0, 0, 1)$
10. $(x^2, y, 3z^3)$