

[11.2] zeros() ignores constraint for complex solutions

In some cases the `zeros()` function will ignore constraints that require a complex solution, and return a general solution instead of `False`. For example:

$$\text{zeros}\left(\frac{x^2-xy+1}{x}, x\right) \mid |y| < 1$$

returns two solutions

$$\left\{ \frac{\sqrt{y^2-4} + y}{2}, \frac{-\left(\sqrt{y^2-4} - y\right)}{2} \right\}$$

Since both of these solutions return complex results for the original constraint $|y| < 1$, `zeros()` should really return `False`.

(Credit to Bhuvanesh Bhatt)