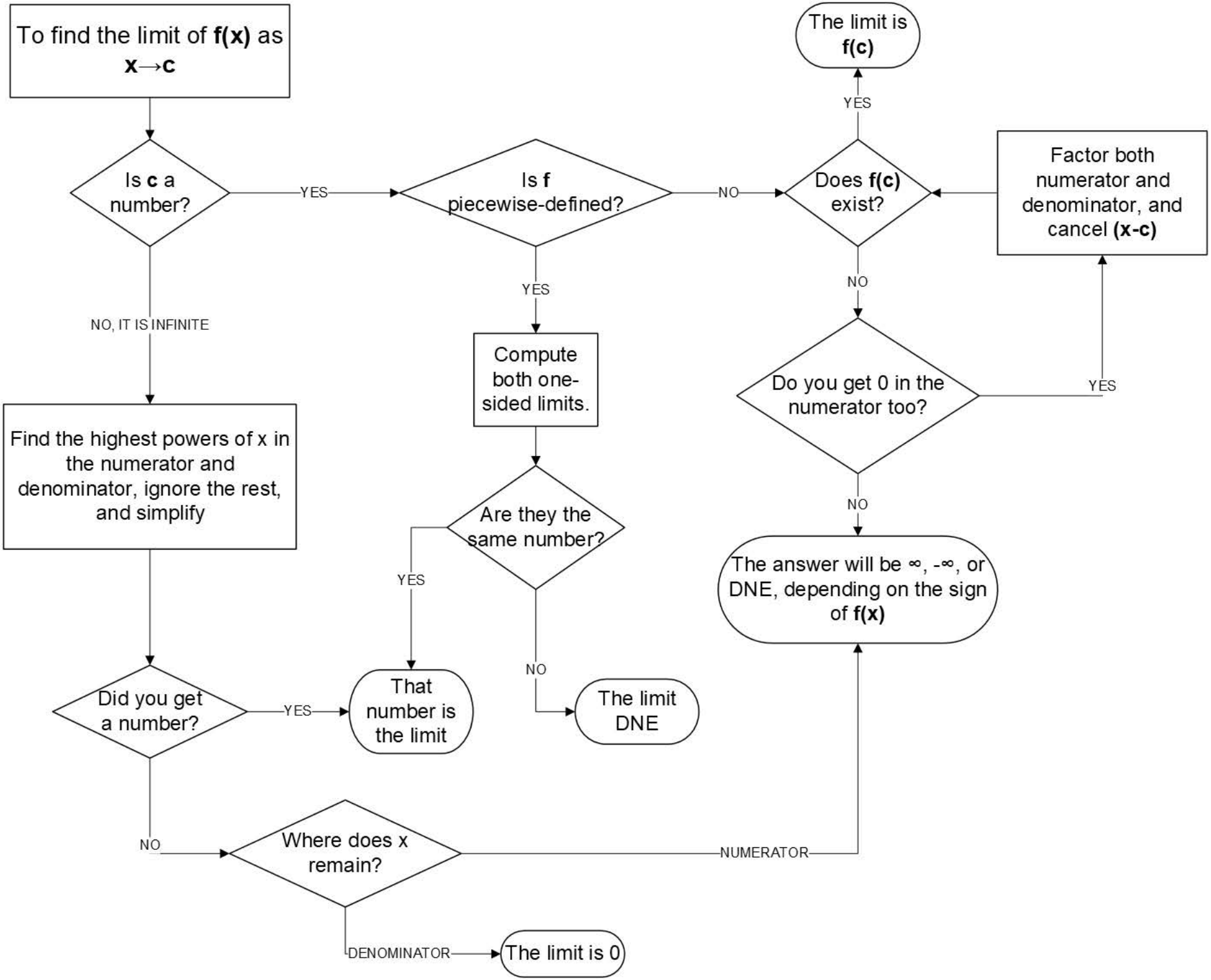
To find the limit of f(x) as x→c
Is c a number?
YES
NO, IT IS INFINITE
Is f piecewise-defined?
YES
Compute both one-sided limits.
Are they the same number?
YES
That number is the limit
NO
The limit DNE
Does f(c) exist?
YES
The limit is f(c)
NO
Do you get 0 in the numerator too?
YES
Factor both numerator and denominator, and cancel (x-c)
NO
The answer will be ∞, -∞, or DNE, depending on the sign of f(x)
Find the highest powers of x in the numerator and denominator, ignore the rest, and simplify
Did you get a number?
YES
NO
Where does x remain?
NUMERATOR
DENOMINATOR
The limit is 0