

Techniques for Optimization

3. Reducing algorithmic complexity

• Identify hotspots from profiles

• Review algorithms to reduce complexity

• Big O notation

• $O(1)$, $O(\log n)$, $O(n)$, $O(n^2)$ etc.

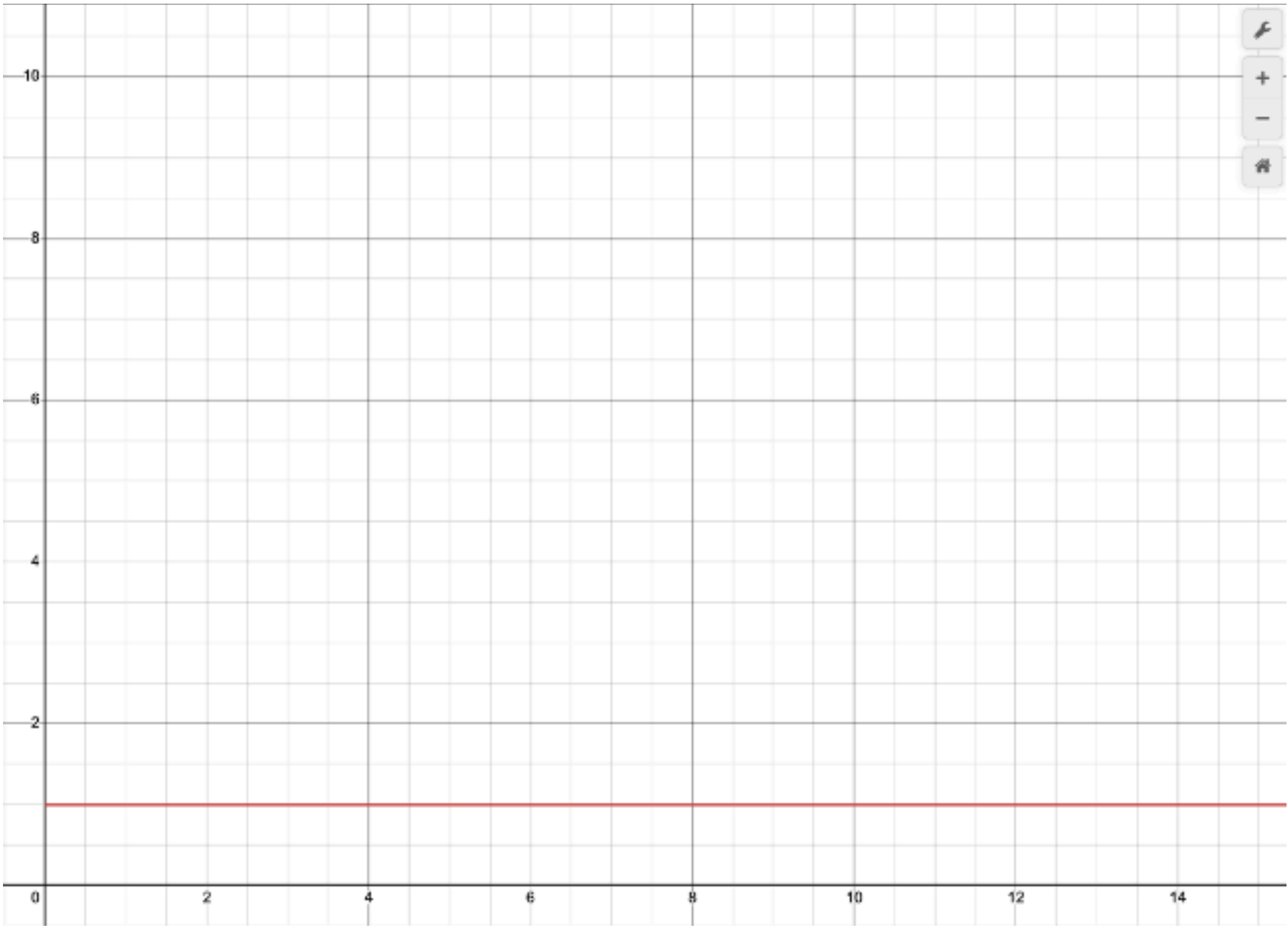
• Ensure your algorithms the same way

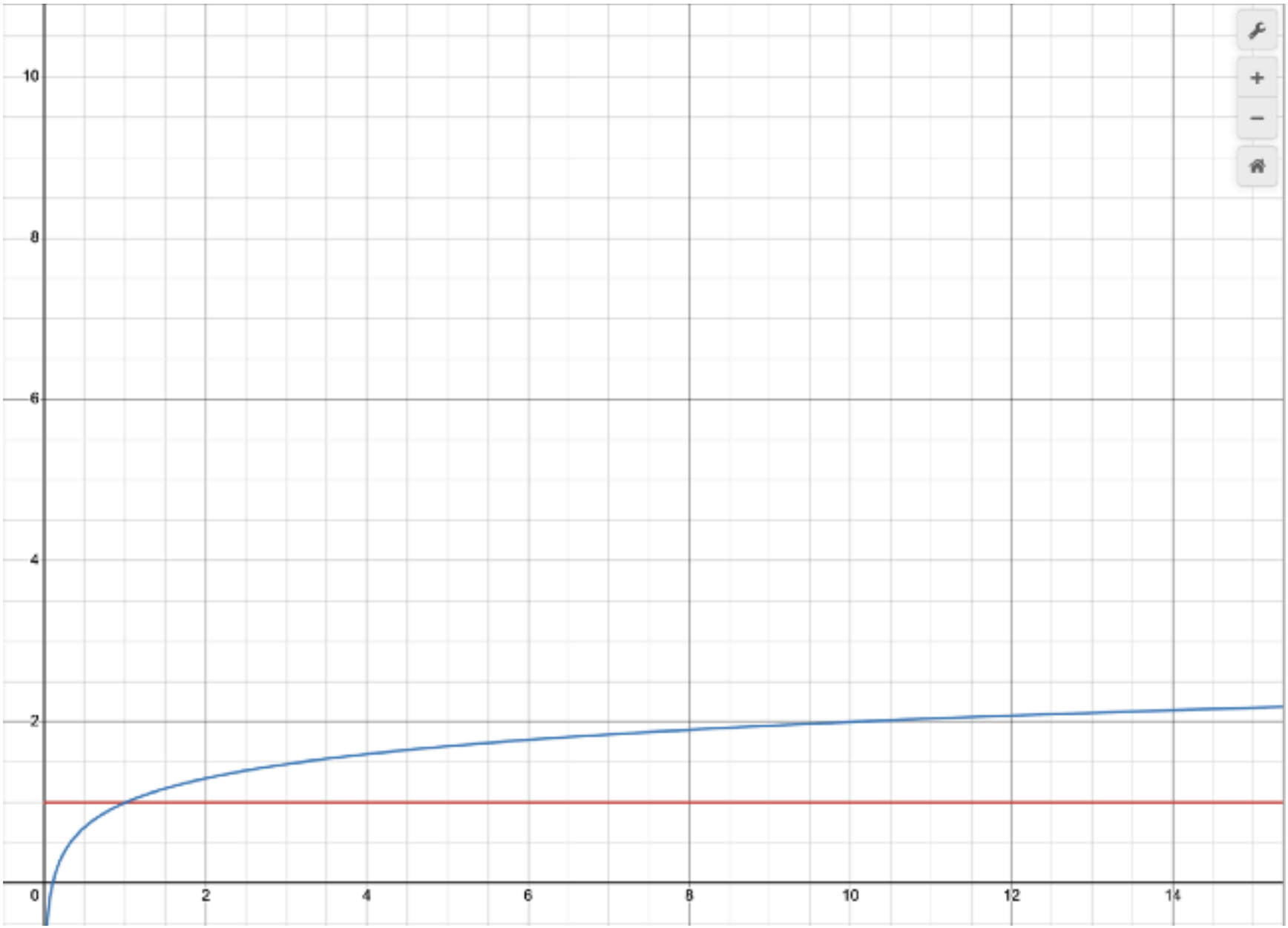
• Including contracts!

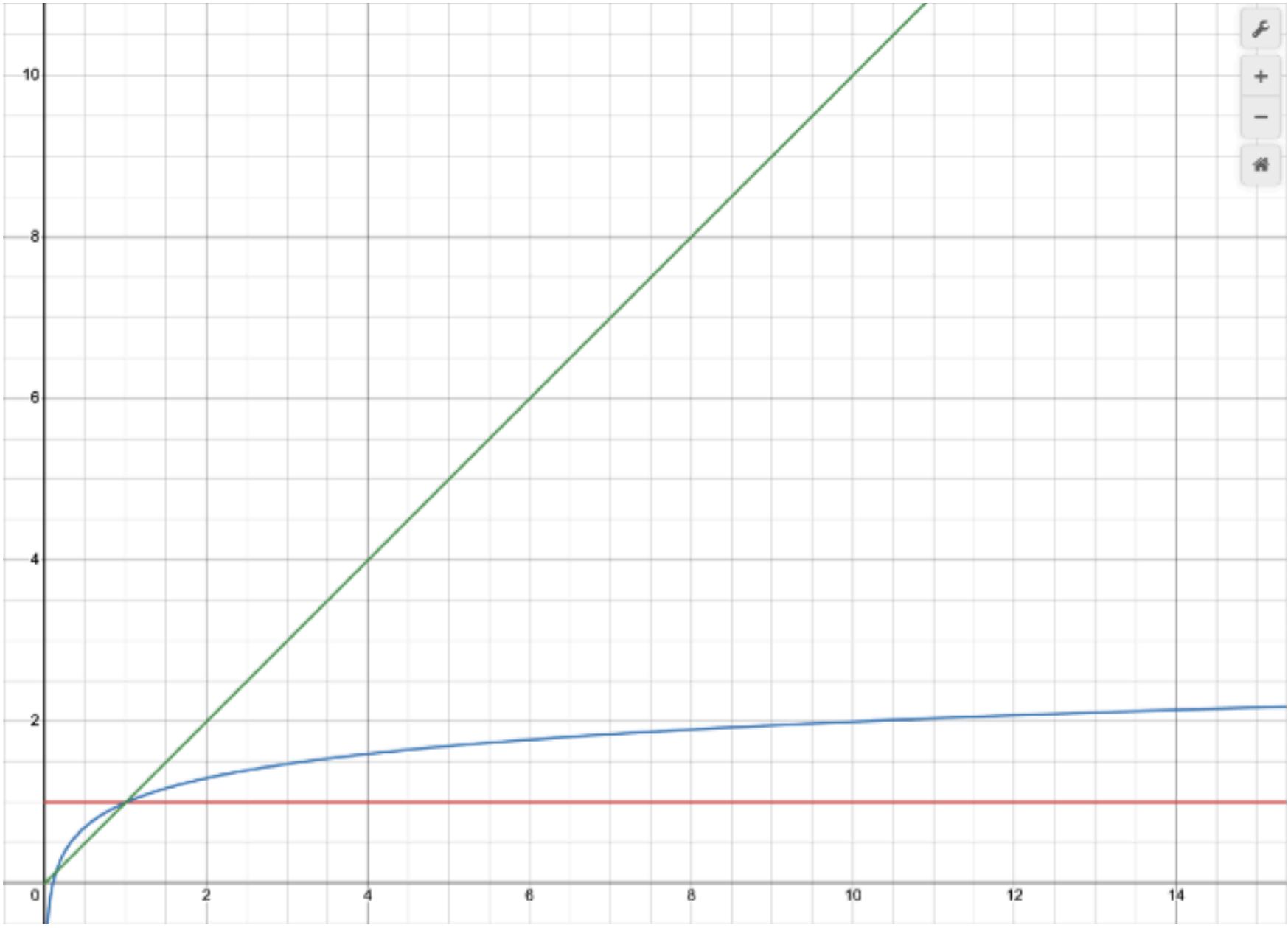
• Testing saves you!

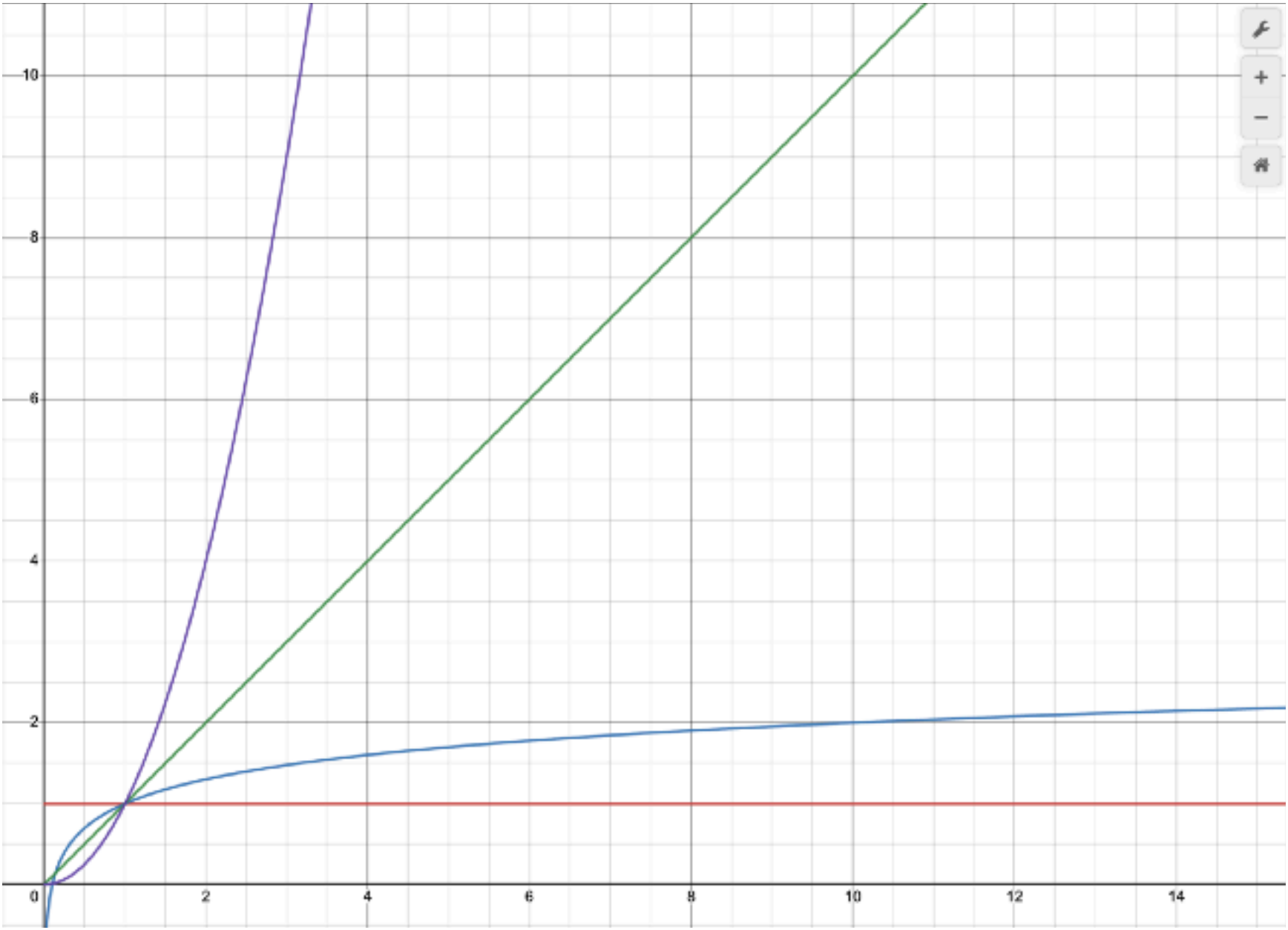
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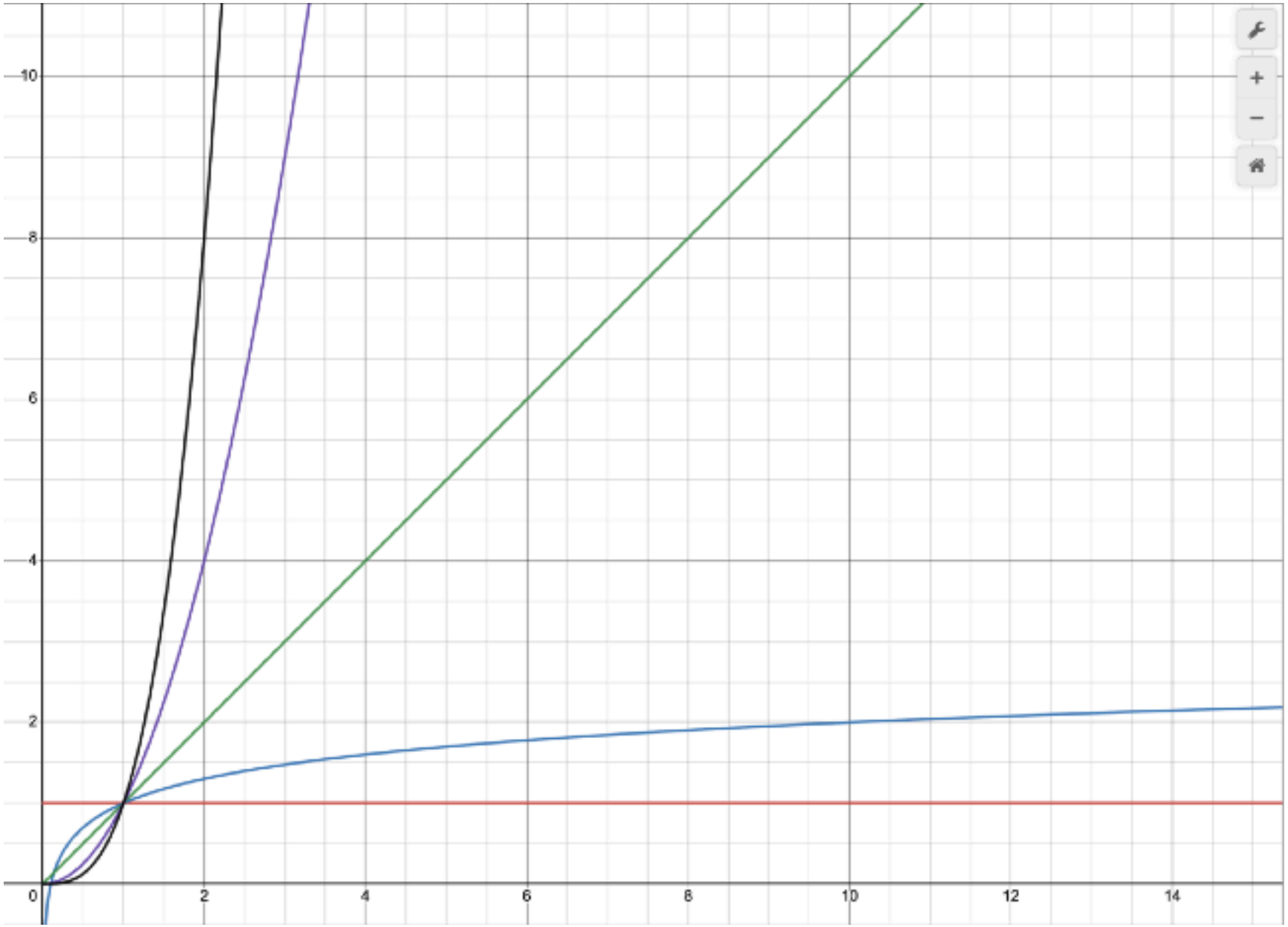
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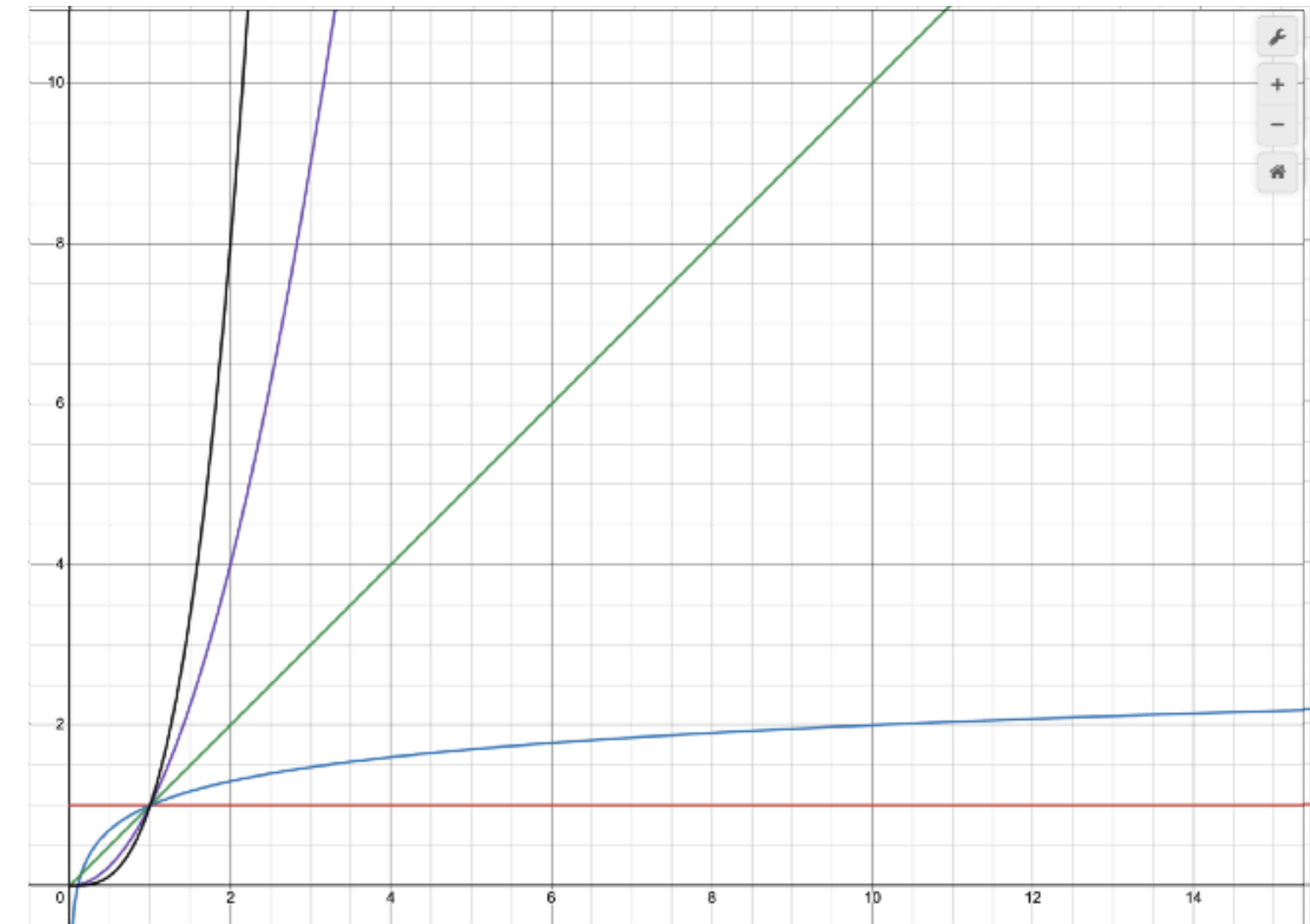




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- Ensure your algorithm works the same way
 - Including contracts!
 - Testing saves you!



Example:
`Edit :: createNewItemID`