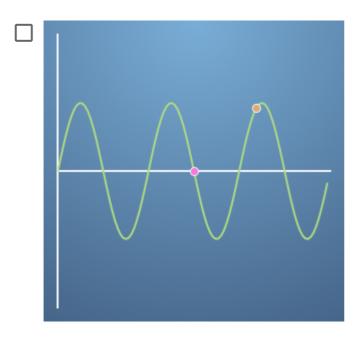
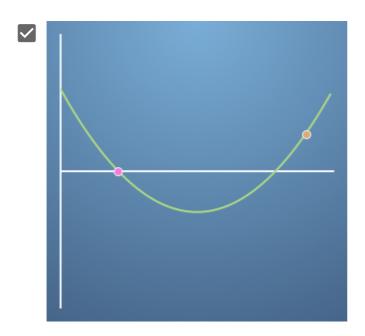
2.5 / 5 puntos

Given the following functions. When applying the Newton-Raphson method, which ones will converge to the specified root (pink dot) from the given starting point (orange dot)?

Select all that apply.

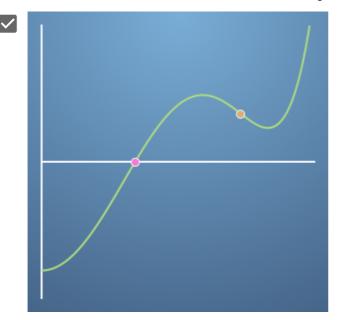


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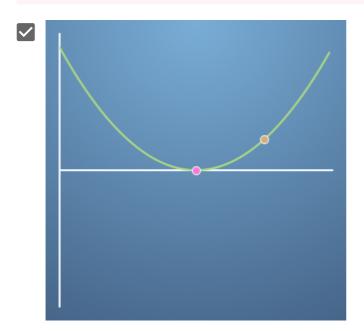
\$\$\$\$

🗴 Esto no debería estar seleccionado This system will converge, but not to the correct root.



Esto no debería estar seleccionado

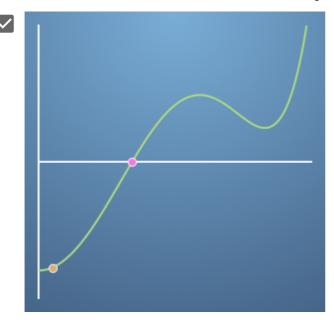
This system may not converge as it is likely to get trapped and oscillate about the minimum that it is sitting in.



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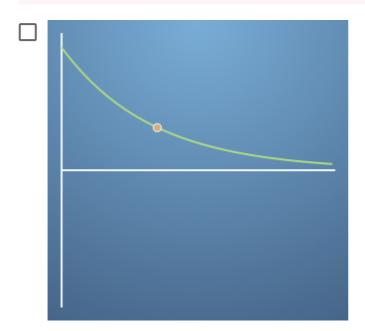
✓ Correcto

This optimisation will converge to the root, even though it is a minimum.

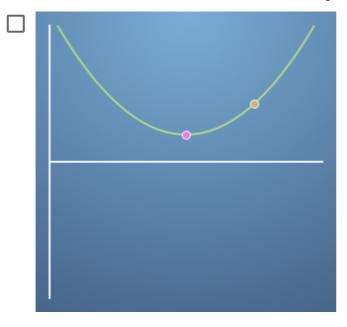


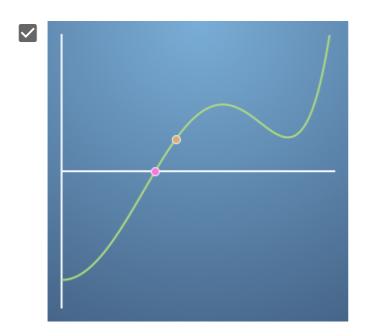
🗴 Esto no debería estar seleccionado

This starting point will throw the starting guess into the basin of the minimum, where it will oscillate in without converging.



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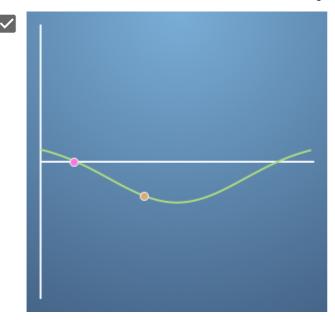




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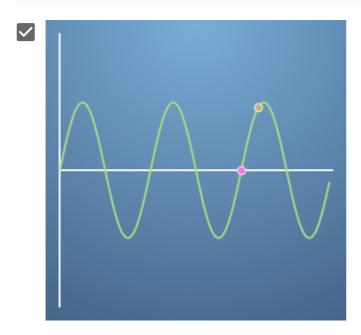
⊘ Correcto

This optimisation will converge to the specified root.



✓ Correcto

This optimisation will converge to the specified root.



\$\$\$\$

💢 Esto no debería estar seleccionado

This system will converge, but not to the nearby root. The gradient is shallow at the starting point, so the iteration will shoot into a different basin.