**Harold’s**

**Polar Parent Functions**

**Cheat Sheet**

AKA Library of Functions

15 September 2025

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| **Circle** |  | | |
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| **Cardioid** |  | | |
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| **One-Loop Limaçon** |  | | |
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| **Inner-Loop Limaçon** |  | | |
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| **lemniscate** |  | | |
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| **Rose Curve** |  | **Archimedes’ Spiral** |  |
|  | |  | |
| even, petals | odd. petals |  |  |

**Sources:**

* LibreTexts Mathematics (2025). [6.2: Graphing Basic Polar Equations](https://math.libretexts.org/Courses/Rio_Hondo/Math_175%3A_Plane_Trigonometry/06%3A_The_Polar_System/6.02%3A_Graphing_Basic_Polar_Equations).

**See also:**

* [Harold’s Algebraic, Transcendental, and Conic Parent Functions Cheat Sheet](https://www.toomey.org/tutor/harolds_cheat_sheets/Harolds_Parent_Functions_Algebraic_Conics_Cheat_Sheet.pdf)
* [Harold’s Trigonometry Parent Functions Cheat Sheet](https://www.toomey.org/tutor/harolds_cheat_sheets/Harolds_Parent_Functions_Trig_Cheat_Sheet.pdf)
* [Harold’s Polar Parent Functions Cheat Sheet](https://www.toomey.org/tutor/harolds_cheat_sheets/Harolds_Parent_Functions_Polar_Cheat_Sheet.pdf)

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