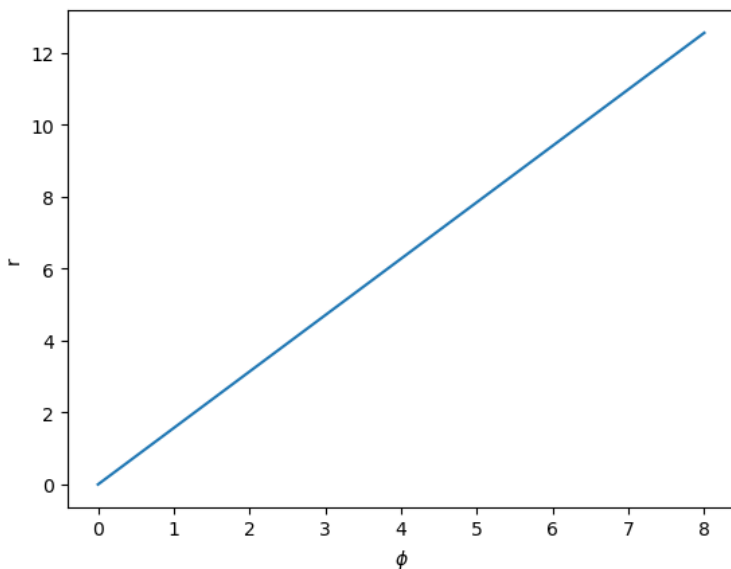
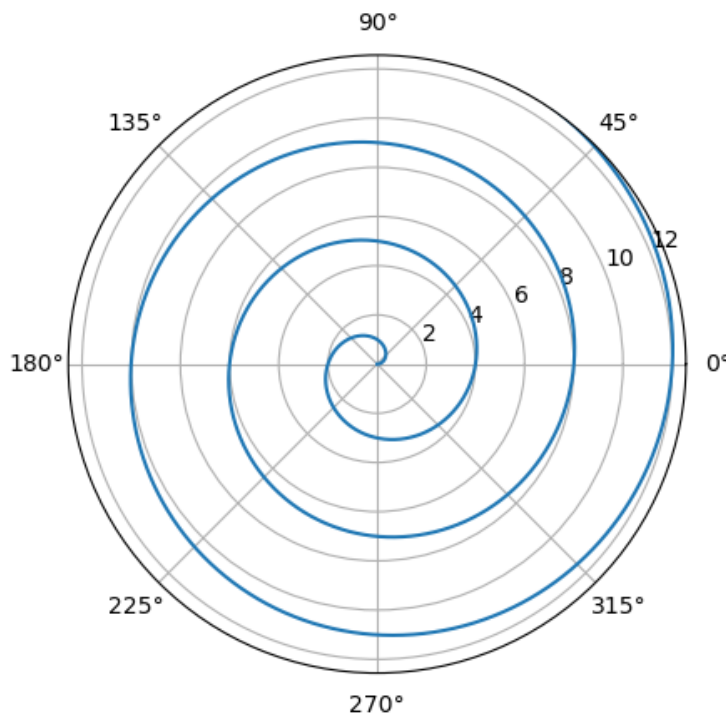


Make a graph of $r = \frac{2}{\pi} \phi$

Solution There are two common graphs that you might make. One, plotting ϕ vs. r as a linear relationship, like so:



This graph is technically correct, but does not reflect the typical circular geometry of the relationship between ϕ and r .



Contrast the graph above with the polar plot

For the polar plots, pay attention to the constant $\frac{2}{\pi}$ in the equation. It tells you how the numerical values of ϕ is related to the numerical values of r in the graph, i.e. how tight the spiral is.