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ContourPlot $\left[x + \frac{x}{x^2 + y^2} - \frac{3}{\pi} \text{ArcTan}\left[\frac{y}{x}\right], \{x, -3, 3\}, \{y, -3, 3\},\right.$ 
  ContourStyle  $\rightarrow$  Table[{Opacity[.9], Hue[i/10]}, {i, 7}], Contours  $\rightarrow$  70, Mesh  $\rightarrow$  None,
  WorkingPrecision  $\rightarrow$  30, WorkingPrecision  $\rightarrow$  30]

In[•]:= ContourPlot $\left[\left(\frac{-1}{\sqrt{x^2 + y^2}} + \sqrt{x^2 + y^2}\right) \text{Sin}[\text{Arg}[x + y I]] + \frac{2}{2\pi} \text{Log}[x^2 + y^2] = 0, \{x, -3, 3\},\right.$ 
  {y, -3, 3}, Frame  $\rightarrow$  None, ContourStyle  $\rightarrow$  {Black, Thick}, AspectRatio  $\rightarrow$  1, PlotPoints  $\rightarrow$  30]

In[•]:= ContourPlot $\left[\left(\frac{-1}{\sqrt{x^2 + y^2}} + \sqrt{x^2 + y^2}\right) \text{Sin}[\text{Arg}[x + y I]] + \frac{2}{2\pi} \text{Log}[x^2 + y^2], \{x, -3, 3\}, \{y, -3, 3\},\right.$ 
  Frame  $\rightarrow$  None, ColorFunction  $\rightarrow$  ({Opacity[#], ColorData["TemperatureMap"][#]} &), AspectRatio  $\rightarrow$  1,
  Contours  $\rightarrow$  50, PlotPoints  $\rightarrow$  50]

In[•]:= Show[%3, %8, %9]

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