In[2]:= `ComplexRegionPlot[Abs[1 + r + (1 / 2) * r ^ (2) + (1 / 6) * r ^ (3) + (1 / 24) * r ^ (4)] ≤ 1,`
`{r, 3}, FrameLabel → {"Real", "Imaginary"},`
`PlotLabel → "Absolute stability region for explicit RK4"]`

Out[2]=

Absolute stability region for explicit RK4