In[ ]:=
```
ContourPlot[r^2/2 (1 - 1/(Sqrt[r^2 + z^2])^3), {z, -2, 2}, {r, -2, 2},
 ColorFunction → ({Opacity[#], ColorData["TemperatureMap"][#]} &), AspectRatio → 1,
 Contours → 50, Mesh → None, WorkingPrecision → 50]
```

In[ ]:=
```
ContourPlot[z (1 + 1/(2 (Sqrt[r^2 + z^2])^3)), {z, -2, 2}, {r, -2, 2},
 ColorFunction → ({Opacity[#], ColorData["TemperatureMap"][#]} &), AspectRatio → 1,
 Contours → 50, Mesh → None, WorkingPrecision → 50]
```

In[ ]:=
```
ContourPlot[r^2/2 (1 - 1/(Sqrt[r^2 + z^2])^3) == 0, {z, -2, 2}, {r, -2, 2}, Frame → None, AspectRatio → 1,
 ContourStyle → {Black, Thick}, PlotPoints → 50]
```

In[ ]:=
```
Show[%24, %25, %26]
```

Out[ ]=