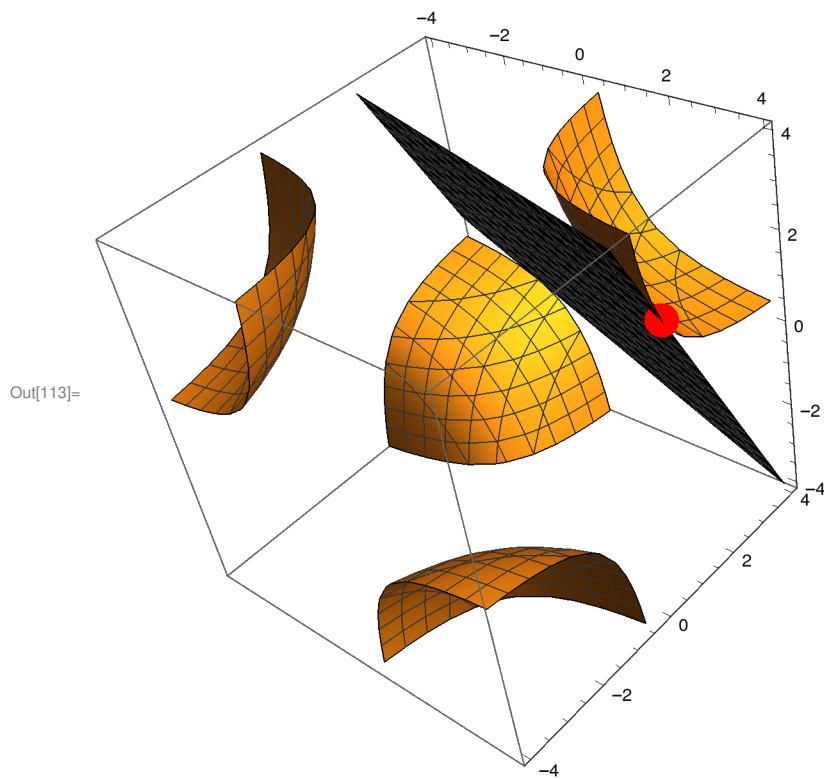


```

In[93]:= levelFunction[x_, y_, z_] := x y z;
levelPlaneTangent[x_, y_, z_] := x + 4 y + 2 z;
levelConstant = 8;
planeNormal = 12;
fixedPoint = {4, 1, 2};

In[113]:= Show[
  ContourPlot3D[levelFunction[x, y, z] == levelConstant, {x, -4, 4}, {y, -4, 4}, {z, -4, 4}],
  ContourPlot3D[levelPlaneTangent[x, y, z] == planeNormal,
    {x, -4, 4}, {y, -4, 4}, {z, -4, 4}, ContourStyle → Directive[Black]],
  Graphics3D[{Red, PointSize[0.05], Point[fixedPoint]}]]

```



N.B. The red dot indicates the location of the fixed point.

```

In[115]:= SetOptions[SelectedNotebook[],
  PrintingStyleEnvironment → "Printout", ShowSyntaxStyles → True]

```