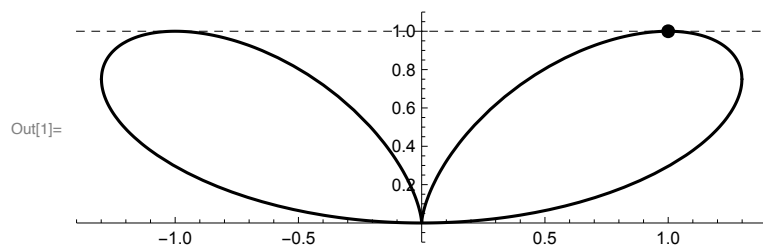```
In[1]:= Plot[
    Flatten@Values @ Solve[(x^2 + y^2)^2 == 4 x^2 y, y],
    {x, -1.5, 1.5},
    PlotStyle → Black,
    PlotRange → {{-1.4, 1.4}, {-.1, 1.1}},
    AspectRatio → 1/3,
    Epilog → {
      PointSize@0.02, Point[{1, 1}],
      Dashed, InfiniteLine[{1, 1}, {1, 0}]
    }
]
```
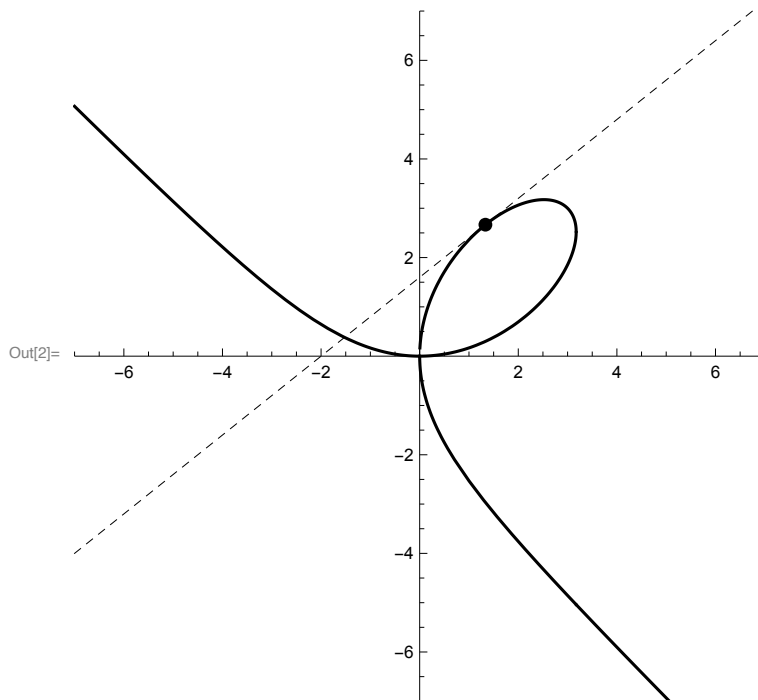
Out[1]=

In[2]:= `Plot[`
   `  Flatten@Values @ Solve[x^3 + y^3 - 6 x y == 0, y],`
   `  {x, -7, 7},`
   `  PlotStyle → Black,`
   `  PlotRange → {{-7, 7}, {-7, 7}},`
   `  AspectRatio → 1,`
   `  Epilog → {`
   `    PointSize@0.02, Point[{4/3, 8/3}],`
   `    Dashed, InfiniteLine[{4/3, 8/3}, {5, 4}]`
   `  }`
   `]`

Out[2]=

```mathematica
In[4]:= Manipulate[
  ParametricPlot[
   {a Cos[t], b Sin[t]},
   {t, -10, 10},
   PlotRange → {{-10, 10}, {-10, 10}},
   PlotStyle → Black,
   Epilog → {
     PointSize@0.02, Blue, Point[
      Flatten@{Flatten@Values@Solve[x^2/a^2 + (-b^2 x/a^2)^2/b^2 == 1, x][[1]],
        -b^2 (Flatten@Values@Solve[x^2/a^2 + (-b^2 x/a^2)^2/b^2 == 1, x][[1]])/
         a^2}],
     Point[Flatten@{Flatten@Values@Solve[x^2/a^2 + (-b^2 x/a^2)^2/b^2 == 1, x][[
          2]], -b^2 (Flatten@
          Values@Solve[x^2/a^2 + (-b^2 x/a^2)^2/b^2 == 1, x][[2]])/a^2}],
     Dashed, InfiniteLine[Flatten@{Flatten@Values@
         Solve[x^2/a^2 + (-b^2 x/a^2)^2/b^2 == 1, x][[1]],
       -b^2 (Flatten@Values@Solve[x^2/a^2 + (-b^2 x/a^2)^2/b^2 == 1, x][[1]])/
        a^2}, {1, 1}],
     InfiniteLine[Flatten@{Flatten@Values@
         Solve[x^2/a^2 + (-b^2 x/a^2)^2/b^2 == 1, x][[2]],
       -b^2 (Flatten@Values@Solve[x^2/a^2 + (-b^2 x/a^2)^2/b^2 == 1, x][[2]])/
        a^2}, {1, 1}],
     Red, Dashing[None], Point[{a Cos[t], b Sin[t]}],
     InfiniteLine[{a Cos[t], b Sin[t]}, {a^2 (b Sin[t]), -b^2 a Cos[t]}]
     }
   ],
  {{a, 8}, 1, 8, Appearance → Labeled},
  {{b, 5}, 1, 8, Appearance → Labeled},
  {{t, Pi/4}, 0, 2 Pi, Appearance → Labeled}
  ]
```

a ▭

b ▭

t ▭

Out[4]=