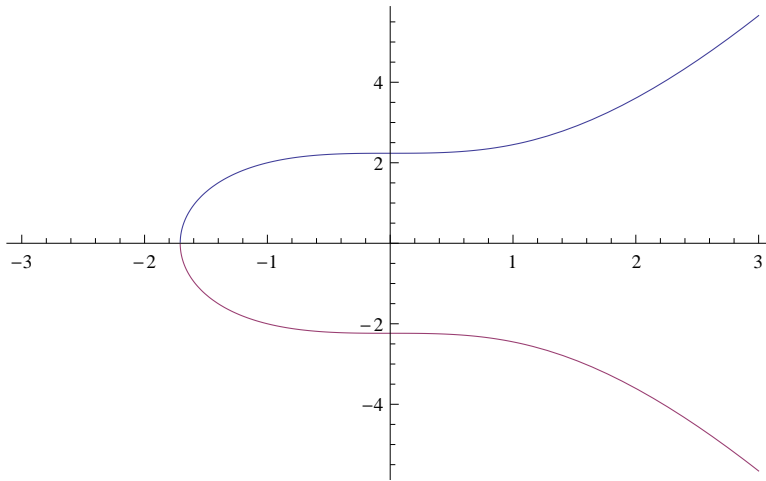
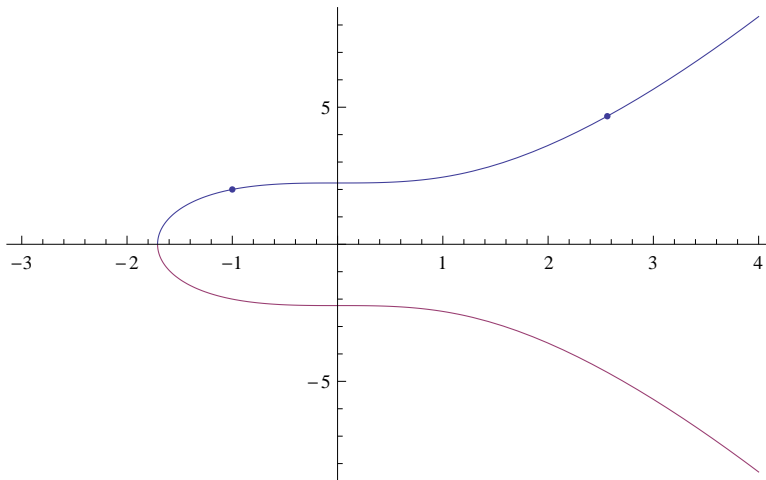


```
Plot[{Sqrt[x^3 + 5], -Sqrt[x^3 + 5]}, {x, -3, 3}]
```



```
Plot[{Sqrt[x^3 - 2], -Sqrt[x^3 - 2]}, {x, -1, 5}]
```

```
Show[Plot[{Sqrt[x^3 + 5], -Sqrt[x^3 + 5]}, {x, -3, 4}],  
ListPlot[{{-1, 2}, {41/16, 299/64}}]]
```



```
xcoord = ((#[[1]]^4 - 8 * 5 * #[[1]]) / (4 * (#[[2]]^2))) &
```

```
ycoord = ((-#[[1]]^6 - 20 * 5 * #[[1]]^3 + 8 * 5^2) / (8 * #[[2]]^3)) &
```

```
NestList[xcoord, {-1, 2}, 1]
```

```
NestList[ycoord, {-1, 2}, 1]
```

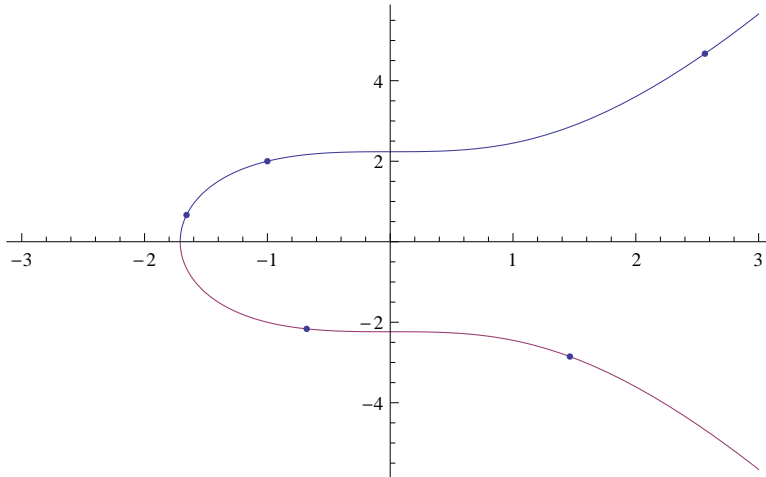
```

PointsOnCurve = NestList[{{(#[1]]^4 - 8 * 5 *#[[1]]) / (4 * (#[2]]^2)),
  ((-#[[1]]^6 - 20 * 5 *#[[1]]^3 + 8 * 5^2) / (8 *#[[2]]^3))} &, {-1, 2}, 4]
{
{-1, 2}, {41/16, 299/64}, {-3891679/5721664, -29624702641/13686220288},
{
29387800522193478978219118721/20085855849000058364604487936, -8117752923635663267827422385294139710082879/2846659432610697288746764187019895677661184},
{-87798473883292778875901366053128464415127288946339122029256167612243840015463473923366446491943290800735113943989759/5294463887245731294054953987192762312665728756666590652558728819808494419732097278080709160869242998209796837499904,
8077990824269997377492506302568279692541260285623913217321380390226180977349025912887697119648258240103819447965488539315047685437292900631400776456063076650833143810302721/12182403659392524958850486407646988391490201908932176199102048233945588387779777106700958196849772496224327606439533587688622094274156104670570574611956330619385662786142208}}
}

```

```
ListPlot[PointsOnCurve]
```

```
Show[Plot[{Sqrt[x^3 + 5], -Sqrt[x^3 + 5]}, {x, -3, 3}], ListPlot[PointsOnCurve]]
```



```
Show[Plot[{Sqrt[x^3 + 5], -Sqrt[x^3 + 5]}, {x, -3, 3}], ListLinePlot[PointsOnCurve]]
```

