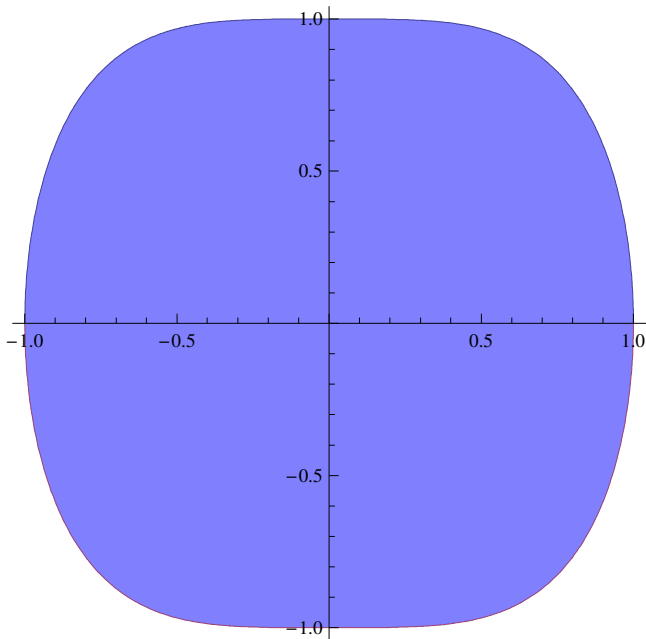


```

<< Graphics`FilledPlot`
$TextStyle = {FontFamily -> "Times", FontWeight -> "Bold", FontSize -> 16}
{FontFamily -> Times, FontWeight -> Bold, FontSize -> 16}

Problem01 = Plot[{sqrt[1 - x^4], -sqrt[1 - x^4]}, {x, -1, 1}, AspectRatio -> Automatic,
  Filling -> {1 -> {{2}, RGBColor[0.5, 0.5, 1]}}, Filling -> {1 -> {2}}]

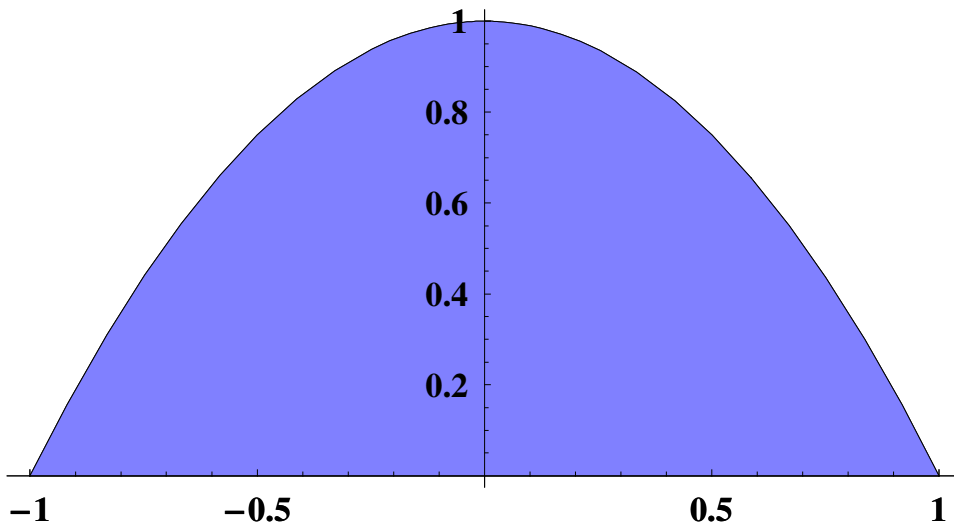
```



```

Problem02 = Plot[{0, 1 - x^2}, {x, -1, 1}, AspectRatio -> Automatic,
  Filling -> {1 -> {{2}, RGBColor[0.5, 0.5, 1]}}, Filling -> {1 -> {2}}]

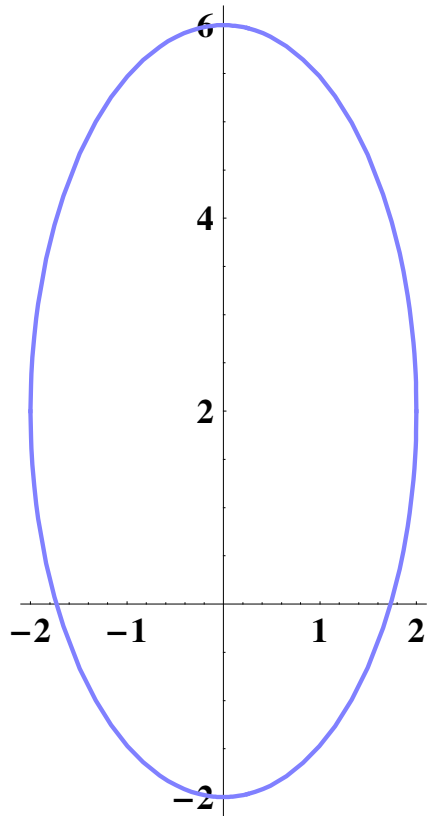
```



```

Problem03 = Plot[{2 -  $\sqrt{16 - 4x^2}$ , 2 +  $\sqrt{16 - 4x^2}$ }, {x, -2, 2},
  AspectRatio -> Automatic, PlotStyle -> {{RGBColor[0.5, 0.5, 1], AbsoluteThickness[2]}}]

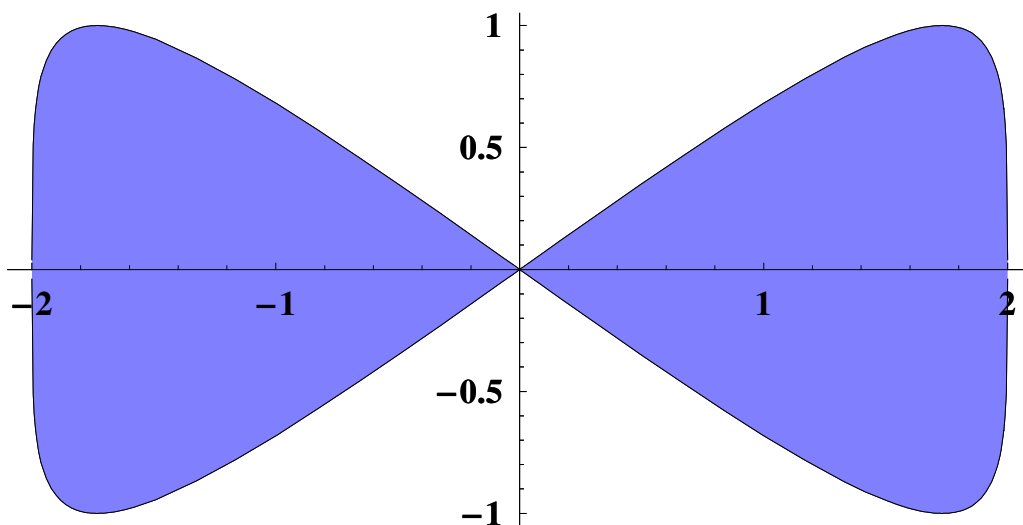
```



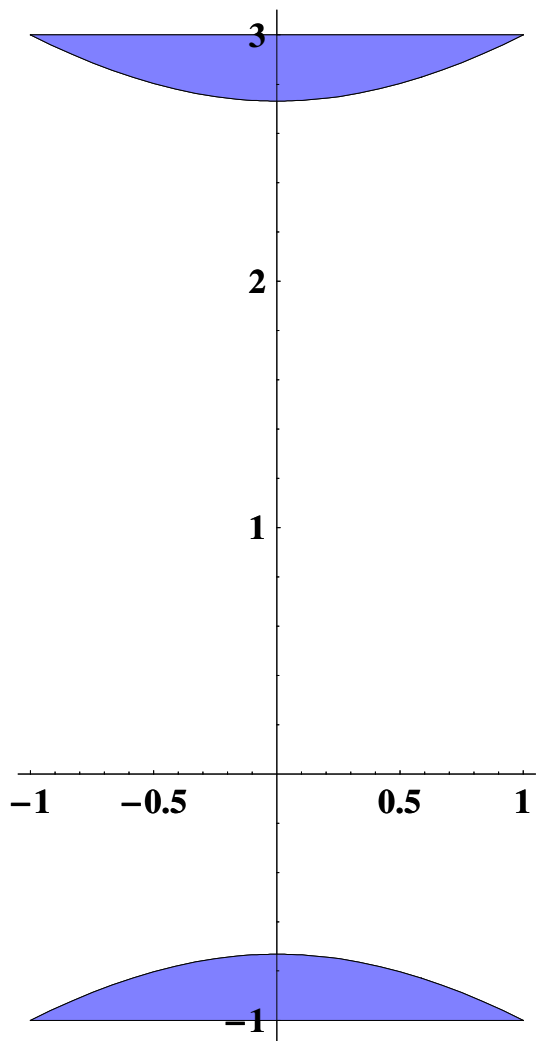
```

Problem04 = Plot[{ $\sqrt{1 - (1 - \sqrt{4 - x^2})^2}$ , - $\sqrt{1 - (1 - \sqrt{4 - x^2})^2}$ }, {x, -2, 2},
  AspectRatio -> Automatic, Filling -> {1 -> {{2}, RGBColor[0.5, 0.5, 1]}}, Filling -> {1 -> {2}}]

```



```
Problem05 = Plot[{1 +  $\sqrt{x^2 + 3}$ , 3, 1 -  $\sqrt{x^2 + 3}$ , -1}, {x, -1, 1}, AspectRatio -> Automatic,  
  Filling -> {1 -> {2}, RGBColor[0.5, 0.5, 1]}, 3 -> {4}, RGBColor[0.5, 0.5, 1]},  
  Filling -> {1 -> {2}, 2 -> {3}, 3 -> {4}}]
```



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