In[21]:= **<< Graphics`FilledPlot`**
$TextStyle = {FontFamily → "Times", FontWeight → "Bold", FontSize → 16}

Out[22]= {FontFamily → Times, FontWeight → Bold, FontSize → 16}

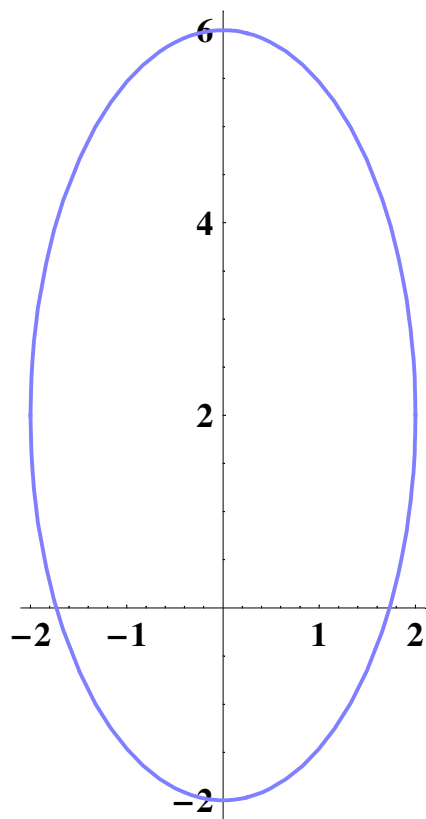*In[23]:=* **Problem01 = FilledPlot[{Sqrt[1 - x^4], -Sqrt[1 - x^4]},**
{x, -1, 1}, AspectRatio → Automatic, Fills → RGBColor[0.5, 0.5, 1]];
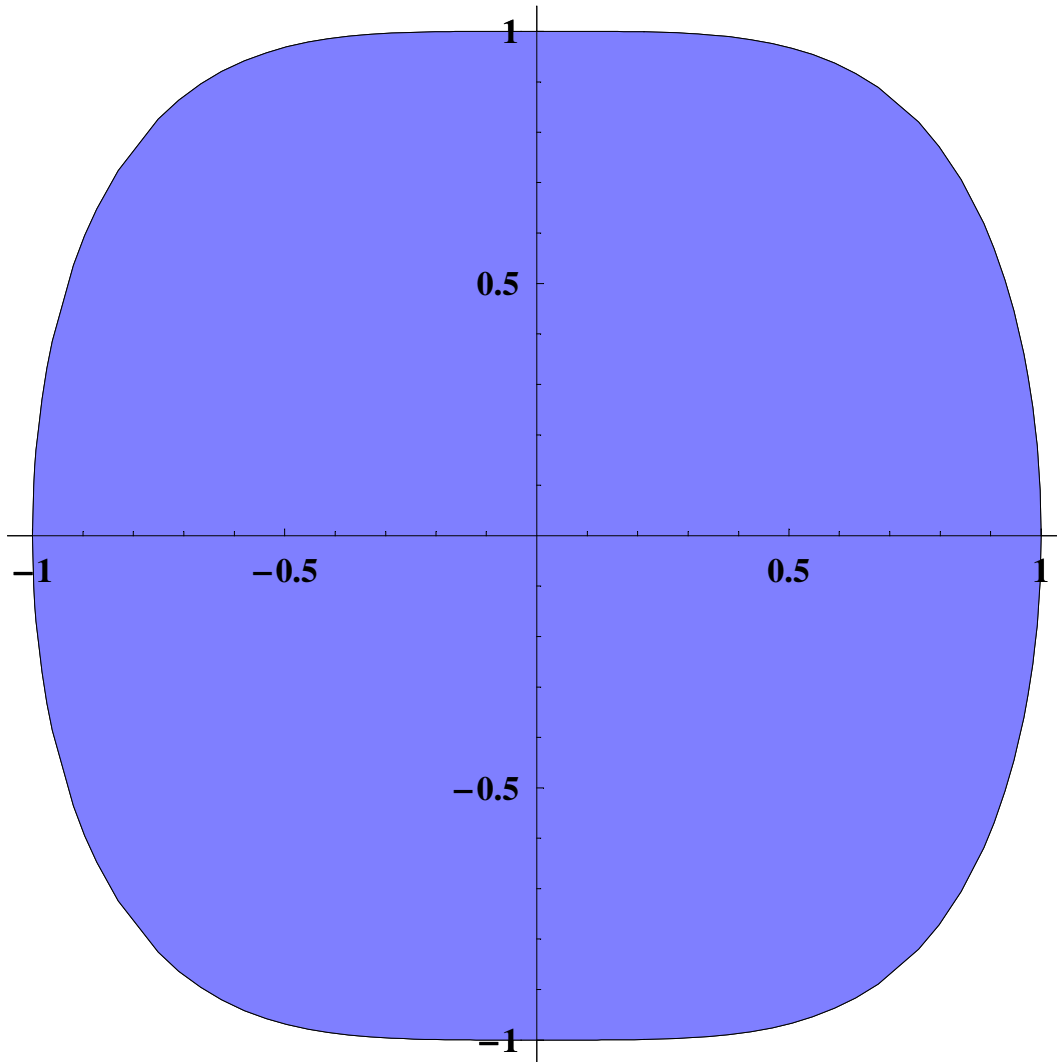
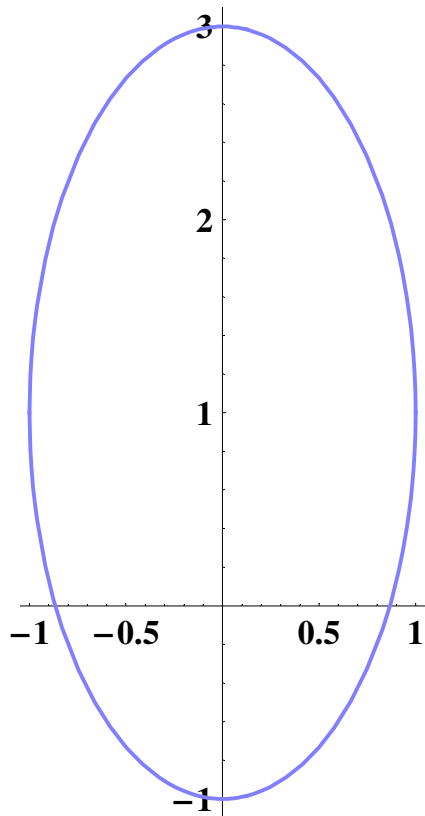*In[24]:=* **Problem02 = FilledPlot[{0, 1 - x^2}, {x, -1, 1},**
        AspectRatio → Automatic, Fills → RGBColor[0.5, 0.5, 1]];
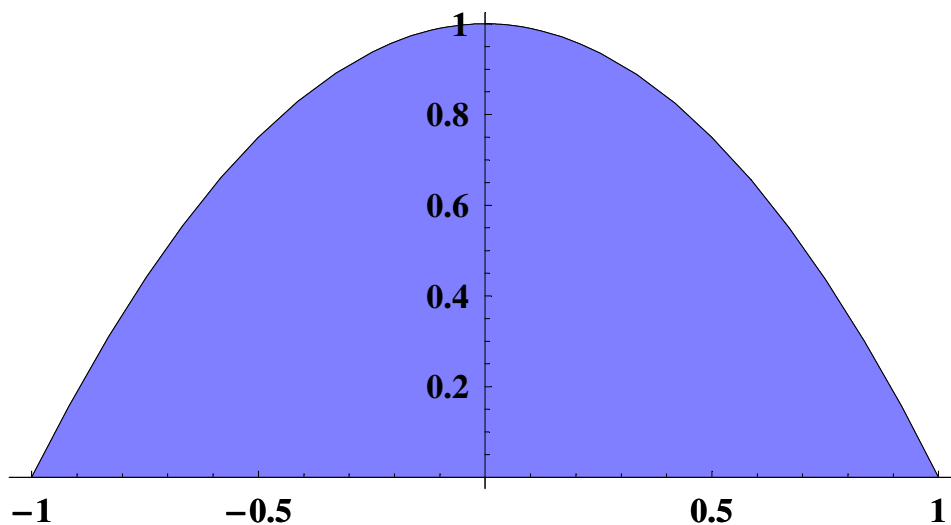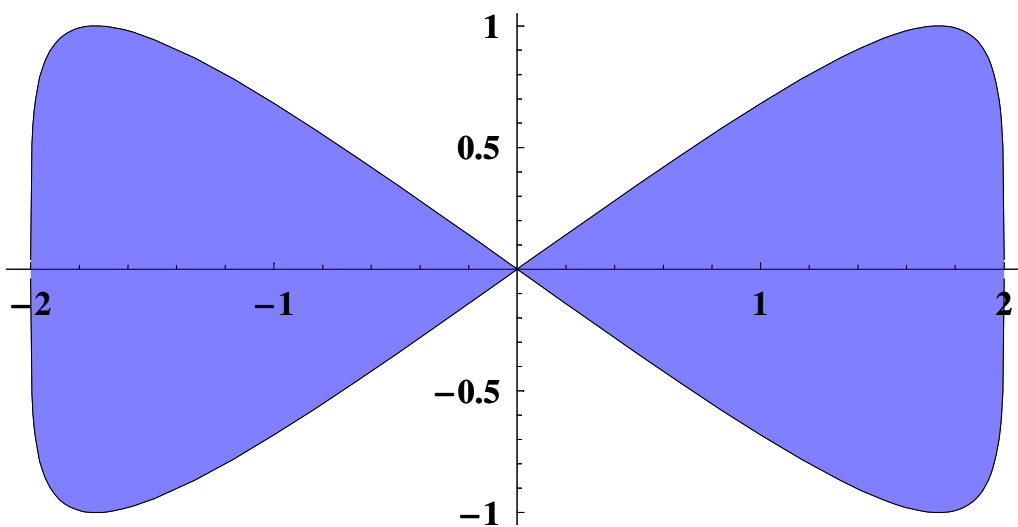

In[25]:= **Problem03 =**
        Plot[{2 - Sqrt[16 - 4 x^2], 2 + Sqrt[16 - 4 x^2]}, {x, -2, 2}, AspectRatio → Automatic,
        PlotStyle → {{RGBColor[0.5, 0.5, 1], AbsoluteThickness[2]}}];

In[26]:= **Problem04 =**
Plot[{1 + 2 Sqrt[1 - x^2], 1 - 2 Sqrt[1 - x^2]}, {x, -1, 1}, AspectRatio → Automatic,
PlotStyle → {{RGBColor[0.5, 0.5, 1], AbsoluteThickness[2]}}];

In[27]:= **Problem05 = FilledPlot[{Sqrt[1 - (1 - Sqrt[4 - x^2])^2], -Sqrt[1 - (1 - Sqrt[4 - x^2])^2]},**
{x, -2, 2}, AspectRatio → Automatic, Fills → RGBColor[0.5, 0.5, 1]];

In[28]:= **Problem06 = FilledPlot[**
{1 + Sqrt[x^2 + 3], 3, 1 - Sqrt[x^2 + 3], -1}, {x, -1, 1}, AspectRatio → Automatic,
Fills → {{{1, 2}, RGBColor[0.5, 0.5, 1]}, {{3, 4}, RGBColor[0.5, 0.5, 1]}}];