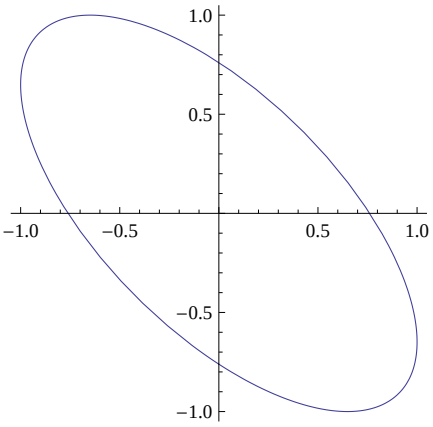
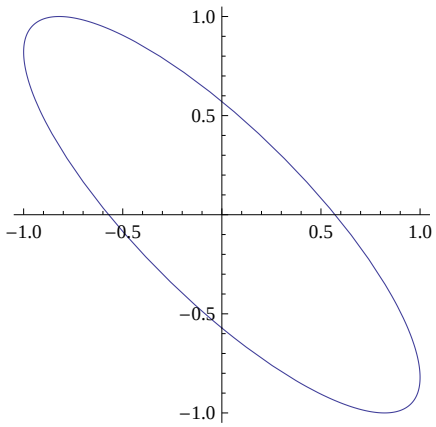
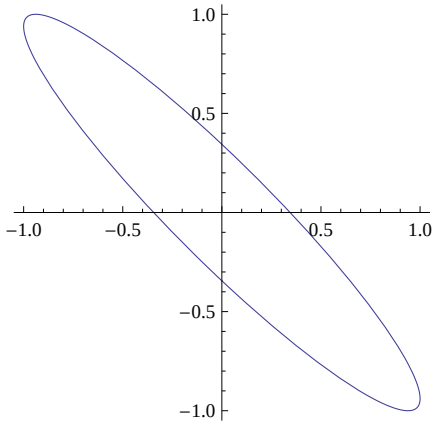
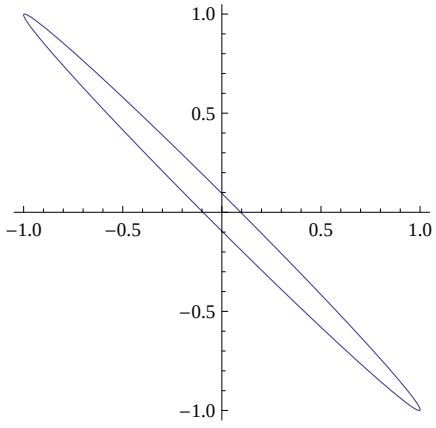
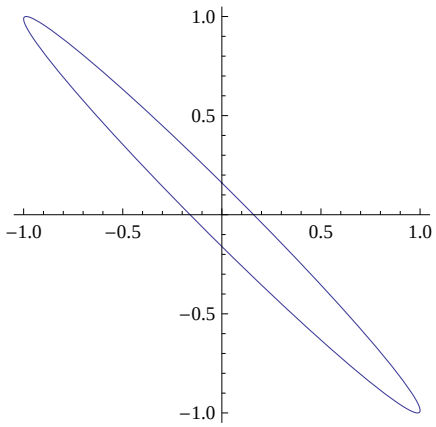
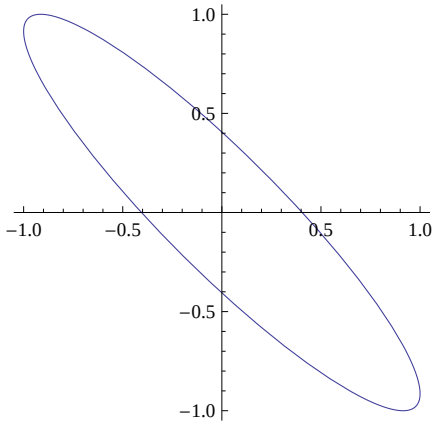
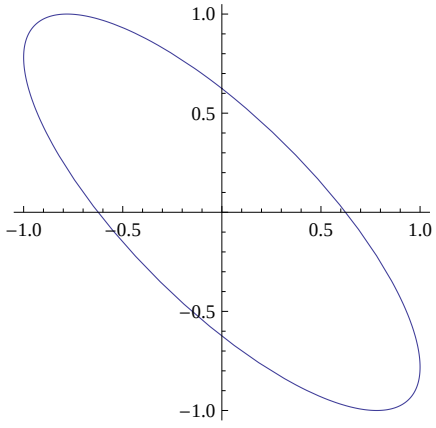
In[60]:=
```
Fc = √(20 * 30);
Print[]
Print["Center frequency = " <>
  ToString[Round[Fc, 0.01]] <> " MHz  (geometric mean from 20 to 30 MHz)"]
u = Table[{"  " <> ToString[PaddedForm[x, {3, 1}, NumberPadding → {"", "0"}]] <> " MHz   ",
    ToString[PaddedForm[Round[(Fc - x)/Fc 360, 0.1], {4, 1}, NumberPadding → {"", "0"}]] <> "°  ",
    ParametricPlot[{Sin[t], Sin[t + π/2 + (Fc - x)/Fc 2 π]}, {t, 0, 2 π},
     PlotRange → 1.05, Axes → True, ImageSize → {200, 200}, PerformanceGoal → "Quality"],
    ToString[PaddedForm[Round[Sqrt[Sin[π/4]^2 + Cos[π/4 + (Fc-x)/Fc 2 π]^2] /
       Sqrt[Sin[3 π/4]^2 + Cos[3 π/4 + (Fc-x)/Fc 2 π]^2], 0.001],
      {4, 3}, NumberPadding → {"", "0"}]]},
   {x, 15, 30, 1}];
v = Prepend[u, {"Frequency", "Degrees Offset Phasing" <> FromCharacterCode[13] <> "from 24.49 MHz",
    "Lissajous Figure", "Axial Ratio - INCORRECT!"}];
Grid[
 v,
 Frame →
  All]
```

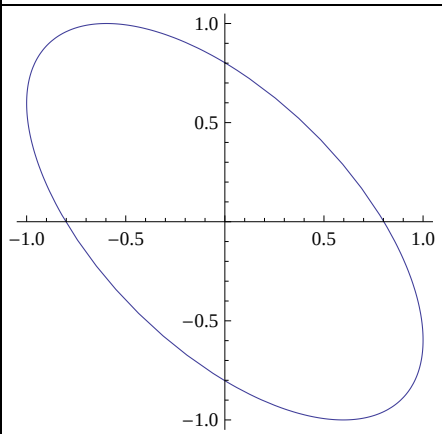
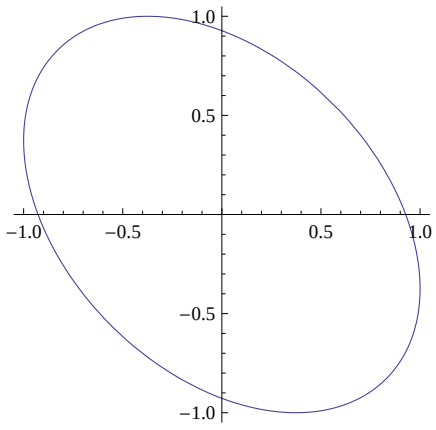
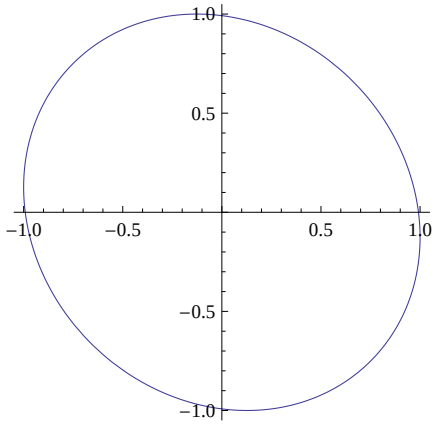
Center frequency = 24.49 MHz (geometric mean from 20 to 30 MHz)

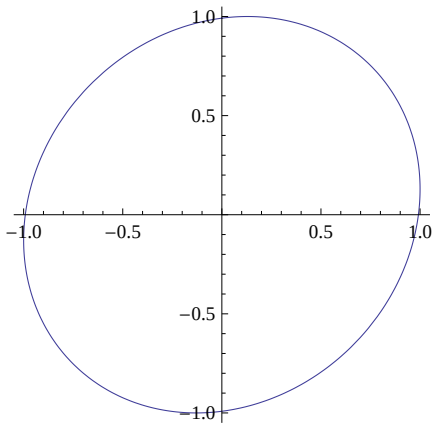
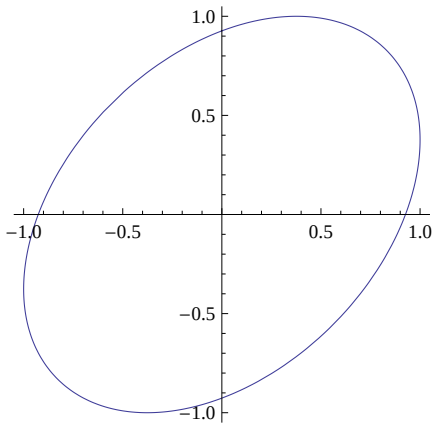
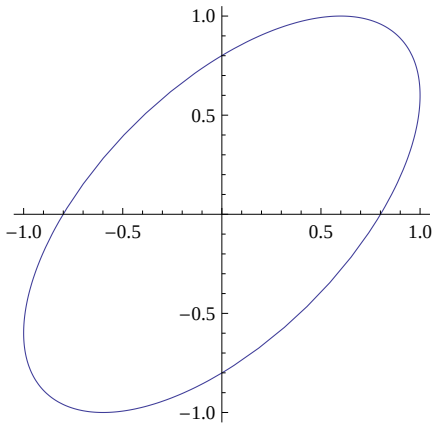
Frequency	Degrees Offset Phasing from 24.49 MHz	Lissajous Figure	Axial Ratio - INCORRECT!
15.0 MHz	139.5°		1.718

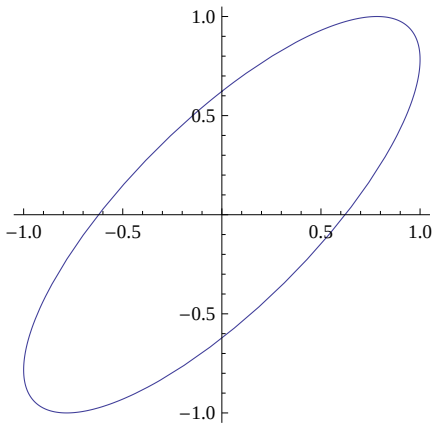
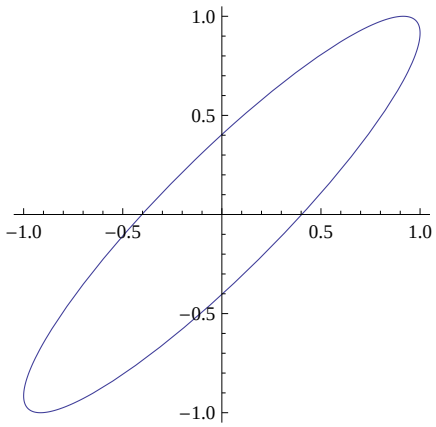
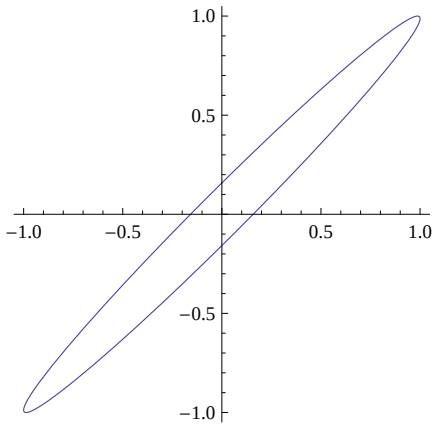
16.0 MHz	124.8°		1.663
17.0 MHz	110.2°		1.399
18.0 MHz	95.5°		1.100

19.0 MHz	80.8°		0.852
20.0 MHz	66.1°		0.677
21.0 MHz	51.4°		0.587

Out[65]=

22.0 MHz	36.7°		0.594
23.0 MHz	22.0°		0.696
24.0 MHz	7.3°		0.881

25.0 MHz	−7.4°		1.137
26.0 MHz	−22.1°		1.439
27.0 MHz	−36.8°		1.686

28.0 MHz	−51.5°		1.703
29.0 MHz	−66.2°		1.473
30.0 MHz	−80.9°		1.170

In[29]:=
$$\sqrt{\text{Sin}\left[\frac{\pi}{4}\right]\text{^}2+\text{Sin}\left[\frac{\pi}{4}+\frac{\pi}{2}+\frac{\sqrt{20*30}-18}{\sqrt{20*30}}\,2\,\pi\right]\text{^}2}\ \text{// N}$$

Out[29]= 1.04625