# **Conic Goat**

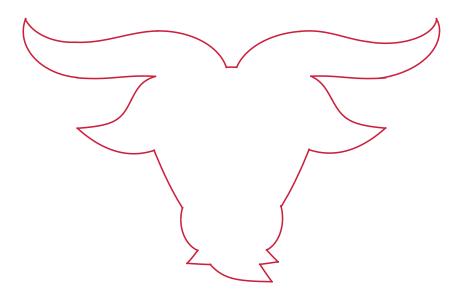
#### Derek Ng

#### **Outline**

```
p1 = Plot[-0.1 x^2 + 0.8, \{x, -.34, .35\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\},
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23];
p2 = Plot[y /. Solve[\frac{(x-5)^2}{23.5} + \frac{(y+0.3)^2}{15.5} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, 0.34 < x < 4.45 && y > 0],
    ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor[0.8, 0.12, 0.23];
p3 = Plot[0.45 Sin[0.7 (x - 2.8)] + 3.2, \{x, 4.44, 8.86\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\}
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p4 = Plot[y /. Solve[\frac{(x-10)^2}{11} + \frac{(y-4.7)^2}{4.1} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, 8.85 < x < 13.31 && y < 4.8],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23] |;
p5 = Plot[y /. Solve[\frac{(x-8.5)^2}{25} + \frac{(y-3.7)^2}{15} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, 9.6 < x < 13.5 && y < 3.7],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p6 = Plot [y /. Solve \left[\frac{(x-8.5)^2}{25} + \frac{(y-3.7)^2}{10} == 1\right],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, 13.3 < x < 13.5 && y > 3.7],
    ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor[0.8, 0.12, 0.23];
p7 = Plot[-0.1 Cos[x-2.6], \{x, 5.16, 10\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\},
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p8 = Plot[-1.7 ArcTan[1.3 (x - 6.5)] - 1.7,
    \{x, 5.16, 10\}, Axes \rightarrow False, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\},
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p9 = Plot[0.15 x^2 - 1.91 x + 0.1135, \{x, 5.03, 10\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\}
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23];
```

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p10 = Plot[0.3 x^2 - 13.3, \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\},
    Axes \rightarrow False, RegionFunction \rightarrow Function[x, -5.02 < x < -3.17 | | 3.22 < x < 5.04],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p11 = Plot [y /. Solve \left[\frac{(x-1.8)^2}{2.3} + \frac{(y+11.1)^2}{6.9} = 1\right],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function[{x, y}, 3.22 < x < 3.33165 && y > -11.1],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p12 = Plot [y /. Solve \left[\frac{(x-1.8)^2}{2.3} + \frac{(y+11.1)^2}{6.9} = 1\right],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, 2.28 < x < 3.3165 && y < -11.1],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p13 = Plot[0.1 x^2 - 1.8 x - 10, \{x, 2.28, 3.03\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\},
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p14 = Plot[0.15 Sin[1.2 (x - 2.6)] - 14.6,
    \{x, 1.84, 3.03\}, Axes \rightarrow False, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\},\
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p15 = Plot[0.1 x^2 - 2.2 x - 11, \{x, 1.84, 2.63\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\}
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23];
   Plot[5 Tanh[-0.6 (x + 2.9)] - 11.1, \{x, -1.37, 2.63\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \}
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23];
p17 = Plot[0.2 Sin[-0.5(x+3.8)] - 14.55,
    \{x, -2.88, -1.35\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p18 = Plot[0.3 x^2 + 3 x - 8.5, \{x, -2.88, -2.18\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\}
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p19 = Plot [y /. Solve \left[\frac{(x+1.7)^2}{2.5} + \frac{(y+11.2)^2}{6.5}\right] = 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, x < -2.18 && y < -11.2],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p20 = Plot[y /. Solve[\frac{(x+1.7)^2}{2.5} + \frac{(y+11.2)^2}{6.5} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function[{x, y}, x < -3.17 && y > -11.2],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p21 = Plot[0.15 x^2 + 1.9 x, \{x, -10, -5\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\},
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
```

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p22 = Plot[-1.6 ArcTan[-1.5 (x + 6.5)] - 1.8,
     \{x, -10, -4.93\}, Axes \rightarrow False, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\},
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p23 = Plot[-0.1 Sin[-(x+7.3)], \{x, -10, -4.93\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\},
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23];
p24 = Plot [y /. Solve \left[\frac{(x+9.5)^2}{16} + \frac{(y-3.6)^2}{13.3} == 1\right],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, x < -10 && y < 3.6],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p25 = Plot[y /. Solve[\frac{(x+9.5)^2}{16} + \frac{(y-3.6)^2}{13.3} == 1],
     \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, x < -13.35 && y > 3.6],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p26 = Plot[y /. Solve[\frac{(x+10.3)^2}{10.4} + \frac{(y-5.4)^2}{7} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, x < -10.13 && y < 4.57],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p27 = Plot[0.45 Sin[0.6 (x + 7.2)] + 3.2,
     \{x, -10.14, -4.8\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p28 = Plot[y /. Solve[\frac{(x+4.7)^2}{20} + \frac{y^2}{13.3} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, -4.81 < x < -0.27 && y > 0.78],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
```



### Horns

$$p29 = Plot \left[ y \ / . \ Solve \left[ \frac{\left( x + 3.6 \right)^2}{1.7} + \frac{\left( y + 1.5 \right)^2}{7.7} \right] = 1 \right],$$
 
$$\left\{ x, -20, 20 \right\}, \ PlotRange \rightarrow \left\{ \left\{ -20, 20 \right\}, \left\{ -20, 10 \right\} \right\}, \ Axes \rightarrow False, \\ RegionFunction \rightarrow Function \left[ \left\{ x, y \right\}, \ x > -3.2 \& y > -0.81 \right], \\ ImageSize \rightarrow Full, \ PlotStyle \rightarrow RGBColor \left[ 0.8, 0.12, 0.23 \right] \right];$$
 
$$p30 = Plot \left[ y \ / . \ Solve \left[ -\frac{\left( x - 0.6 \right)^2}{3} + \frac{\left( y - 5.7 \right)^2}{3.6} \right] = 1 \right], \\ \left\{ x, -20, 20 \right\}, \ PlotRange \rightarrow \left\{ \left\{ -20, 20 \right\}, \left\{ -20, 10 \right\} \right\}, \ Axes \rightarrow False, \\ RegionFunction \rightarrow Function \left[ \left\{ x, y \right\}, -3.81 < x < -3.19 \& y < 3 \right], \\ ImageSize \rightarrow Full, \ PlotStyle \rightarrow RGBColor \left[ 0.8, 0.12, 0.23 \right] \right];$$
 
$$p31 = Plot \left[ y \ / . \ Solve \left[ -\frac{\left( x + 2.75 \right)^2}{0.2} + \frac{\left( y - 5.7 \right)^2}{4.1} \right] = 1 \right], \\ \left\{ x, -20, 20 \right\}, \ PlotRange \rightarrow \left\{ \left\{ -20, 20 \right\}, \left\{ -20, 10 \right\} \right\}, \ Axes \rightarrow False, \\ RegionFunction \rightarrow Function \left[ \left\{ x, y \right\}, -3.81 < x < -3.46 \& y < 3 \right], \\ ImageSize \rightarrow Full, \ PlotStyle \rightarrow RGBColor \left[ 0.8, 0.12, 0.23 \right] \right];$$

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p32 = Plot[y /. Solve[ -\frac{(x-1.75)^2}{2.2} + \frac{(y-5.9)^2}{1.2} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, -3.94 < x < -3.46 && y < 3],
    ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor[0.8, 0.12, 0.23];
p33 = Plot[0.5 Sin[0.5 (x-3)] + 1.4, \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\},
    Axes \rightarrow False, RegionFunction \rightarrow Function [x, -4.66 < x < -3.93],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p34 = Plot[y /. Solve[-\frac{(x+2.6)^2}{0.2} + \frac{(y-5.9)^2}{0.8} == 1],
    \{x, -5.01, -4.64\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function[{x, y}, -5.01 < x < -4.64 && y < 5],
    ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor[0.8, 0.12, 0.23];
p35 = Plot[0.8 \times^2 + 1.8 \times -10, \{x, -5.2, -5\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\},
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p36 = Plot[-0.3 x^2 - 1.5 x + 2.55, \{x, -5.51, -5.19\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\}
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p37 = Plot[0.1 Sin[1.1 (x - 5)] + 1.63, \{x, -6.24, -5.5\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\}
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p38 = Plot[0.2 x^2 + 0.03 x - 7.3, \{x, -6.86, -6.48\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\}
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p39 = Plot[y /. Solve \left[-\frac{(x+5.3)^2}{9.1} + \frac{(y-4.2)^2}{9.7} == 1\right],
     \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function[{x, y}, -6.5 < x < -6.2 && y < 5],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p40 = Plot[y /. Solve[-\frac{(x+5.8)^2}{2.1} + \frac{(y-4.1)^2}{2.1} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, -7.1 < x < -6.85 && y < 3],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p41 =
   Plot[-0.8 Tanh[x + 11.5] + 2.23, \{x, -10.84, -7.09\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\}
    Axes \rightarrow False, ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor[0.8, 0.12, 0.23]];
p42 = Plot[0.45 Sin[0.6 (x + 7)] + 2.1, \{x, -10.84, -4.3\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\}
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p43 = Plot[y /. Solve[\frac{(x+4.8)^2}{15.5} + \frac{(y+1.3)^2}{15} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, x > -4.4 && y > -0.54],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
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p44 = Plot[-0.15 x^2 - 0.4, \{x, -0.95, 0.94\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\},
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p45 = Plot[y /. Solve[\frac{(x-4.7)^2}{14.8} + \frac{(y+1.35)^2}{15} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, x < 3.71 && y > -0.54],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p46 =
   Plot[0.45 Sin[0.6 (x + 8.2)] + 2.05, \{x, 3.7, 10.31\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \{-20, 10\}\}
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p47 = Plot[0.4 Tanh[1.1 (x - 10.8)] + 1.8,
    \{x, 7.08, 10.31\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p48 = Plot[y /. Solve[ - \frac{(x-6.2)^2}{0.1} + \frac{(y-3.7)^2}{0.6} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, 6.85 < x < 7.09 && y < 3],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p49 = Plot[0.2 x^2 + 0.1 x - 8.2, \{x, 0, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\},
    Axes \rightarrow False, RegionFunction \rightarrow Function[{x, y}, 6.48 < x < 6.87],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p50 = Plot[y /. Solve[-\frac{(x-7.9)^2}{0.2} + \frac{(y+3.6)^2}{1.8} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, 6.21 < x < 6.49 && y > -3],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p51 = Plot[0.1 Sin[1.6 (x - 0.6)] + 1.6, \{x, 5.5, 6.22\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\},
    Axes → False, ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p52 = Plot[y /. Solve \left[-\frac{(x-4.2)^2}{9.4} + \frac{(y-4.6)^2}{1.6} = 1\right],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, 5.2 < x < 5.51 && y < 3],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
p53 = Plot[y /. Solve[-\frac{(x-4.3)^2}{9.1} + \frac{(y+3.6)^2}{3.7} == 1],
    \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False,
    RegionFunction \rightarrow Function [{x, y}, 4.99 < x < 5.21 && y > -3],
    ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];
```

$$p54 = Plot\left[y \text{ /. } Solve\left[-\frac{(x-3.4)^2}{0.6} + \frac{(y-5)^2}{3} == 1\right], \\ \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False, \\ RegionFunction \rightarrow Function[\{x, y\}, 4.64 < x < 58\&y < 3], \\ ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor[0.8, 0.12, 0.23]]; \\ p55 = Plot\left[0.2 Cos\left[1.2 \left(x-0.2\right)\right] + 1.6, \{x, 3.9, 4.65\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False, ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor[0.8, 0.12, 0.23]]; \\ p56 = Plot\left[y \text{ /. } Solve\left[-\frac{(x-0.15)^2}{1.8} + \frac{(y-4.8)^2}{1.2} == 1\right], \\ \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False, \\ RegionFunction \rightarrow Function[\{x, y\}, 3.47 < x < 3.91 \& y < 3], \\ ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor[0.8, 0.12, 0.23]]; \\ p57 = Plot\left[y \text{ /. } Solve\left[-\frac{(x-3)^2}{0.1} + \frac{(y-4.6)^2}{2.3} == 1\right], \\ \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False, \\ RegionFunction \rightarrow Function[\{x, y\}, 3.47 < x < 3.79 \& y < 3], \\ ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor[0.8, 0.12, 0.23]]; \\ p58 = Plot\left[y \text{ /. } Solve\left[-\frac{(x-0.4)^2}{1.8} + \frac{(y-4.65)^2}{2.3} == 1\right], \\ \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False, \\ RegionFunction \rightarrow Function[\{x, y\}, 3.2 < x < 3.79 \& y < 3], \\ ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor[0.8, 0.12, 0.23]]; \\ p59 = Plot\left[y \text{ /. } Solve\left[\frac{(x-3.8)^2}{2.2} + \frac{(y+1.1)^2}{6} == 1\right], \\ \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False, \\ RegionFunction \rightarrow Function[\{x, y\}, x < 3.21 \& y > -0.81], \\ ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor[0.8, 0.12, 0.23]]; \\ p59 = Plot\left[y \text{ /. } Solve\left[\frac{(x-3.8)^2}{2.2} + \frac{(y+1.1)^2}{6} == 1\right], \\ \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False, \\ RegionFunction \rightarrow Function[\{x, y\}, x < 3.21 \& y > -0.81], \\ ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor[0.8, 0.12, 0.23]]; \\ p59 = Plot\left[y \text{ /. } Solve\left[\frac{(x-3.8)^2}{2.2} + \frac{(y-1.1)^2}{6} == 1\right], \\ \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, Axes \rightarrow False, \\ RegionFunction \rightarrow Function\left[\{x, y\}, x < 3.21 \& y > -0.81\right], \\ P50 = Plot\left[y \text{ /. } Solve\left[\frac{(x-3.8)^2}{2.2} + \frac{(y-3.8)^2}{6} + \frac{(y-3.8)^2}{2.2} + \frac{(y-3.8)$$

ov2 = Overlay[{p29, p30, p31, p32, p33, p34, p35, p36, p37, p38, p39, p40, p41, p42, p43, p44, p45, p46, p47, p48, p49, p50, p51, p52, p53, p54, p55, p56, p57, p58, p59}]



### Right Ear

ov3 = Overlay[{p60, p61, p62}]



### Left Ear

ov4 = Overlay[{p63, p64, p65}]



## Left Forehead and Eye

```
p66 = Plot [y /. Solve [ \frac{(x+2.2)^2}{0.6} + \frac{(y+2.5)^2}{1.1} == 1],

{x, -20, 20}, PlotRange → {{-20, 20}, {-20, 10}}, Axes → False,

RegionFunction → Function [{x, y}, x < -2.39 && y > -2.5],

ImageSize → Full, PlotStyle → RGBColor [0.8, 0.12, 0.23]];

p67 = Plot [y /. Solve [ \frac{(x+2.2)^2}{0.6} + \frac{(y+2.5)^2}{1.1} == 1],

{x, -20, 20}, PlotRange → {{-20, 20}, {-20, 10}}, Axes → False,

RegionFunction → Function [{x, y}, x < -2.94 && y < -2.5],

ImageSize → Full, PlotStyle → RGBColor [0.8, 0.12, 0.23]];

p68 = Plot [y /. Solve [ (x + 2.8)^2 + (y + 3.8)^2 == 1],

{x, -20, 20}, PlotRange → {{-20, 20}, {-20, 10}}, Axes → False,

RegionFunction → Function [{x, y}, x < -2.94 && y > -3.58],

ImageSize → Full, PlotStyle → RGBColor [0.8, 0.12, 0.23]];

p69 = Plot [2.1 Sin [0.65 (x - 3.7)] - 5.65,

{x, -3.78, -1.46}, PlotRange → {{-20, 20}, {-20, 10}}, Axes → False,

ImageSize → Full, PlotStyle → RGBColor [0.8, 0.12, 0.23]];
```

RegionFunction  $\rightarrow$  Function  $[\{x, y\}, (-3.12 < x < -2.77 | | -2.41 < x < -1.98) & y < -4],$ 

ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];

p78 = Plot[y /. Solve[
$$\frac{(x+2.65)^2}{0.06} + \frac{(y+4.655)^2}{0.15} == 1$$
],  
{x, -20, 20}, PlotRange  $\rightarrow$  {{-20, 20}, {-20, 10}}, Axes  $\rightarrow$  False,

RegionFunction  $\rightarrow$  Function[{x, y}, x < -2.406 && y < -4.655], ImageSize  $\rightarrow$  Full, PlotStyle  $\rightarrow$  RGBColor[0.8, 0.12, 0.23]];

p79 = Plot[y /. Solve[
$$\frac{(x+2.65)^2}{0.06} + \frac{(y+4.655)^2}{0.15} == 1$$
],

 $\{x, -20, 20\}$ , PlotRange  $\rightarrow$   $\{\{-20, 20\}, \{-20, 10\}\}$ , Axes  $\rightarrow$  False, RegionFunction  $\rightarrow$  Function[ $\{x, y\}, x < -2.77 \& y > -4.655$ ], ImageSize  $\rightarrow$  Full, PlotStyle  $\rightarrow$  RGBColor[0.8, 0.12, 0.23]];

p80 = Plot[y /. Solve[
$$\frac{(x+2.8)^2}{0.2} + \frac{(y+4.7)^2}{0.9} == 1$$
],

 $\{x, -20, 20\}$ , PlotRange  $\rightarrow$   $\{\{-20, 20\}, \{-20, 10\}\}$ , Axes  $\rightarrow$  False, RegionFunction  $\rightarrow$  Function[ $\{x, y\}, x < -3.11 \& y > -4.7$ ], ImageSize  $\rightarrow$  Full, PlotStyle  $\rightarrow$  RGBColor[0.8, 0.12, 0.23]];

p81 = Plot[y /. Solve[
$$\frac{(x+2.8)^2}{0.2} + \frac{(y+4.7)^2}{0.9} == 1$$
],

 $\{x, -20, 20\}$ , PlotRange  $\rightarrow$   $\{\{-20, 20\}, \{-20, 10\}\}$ , Axes  $\rightarrow$  False, RegionFunction  $\rightarrow$  Function  $[\{x, y\}, x < -2.96 \& y < -4.7]$ , ImageSize  $\rightarrow$  Full, PlotStyle  $\rightarrow$  RGBColor [0.8, 0.12, 0.23];

p82 = Plot[y /. Solve[
$$\frac{(x+2.7)^2}{1.2} + \frac{(y+3.9)^2}{3} == 1$$
],

 $\{x, -20, 20\}$ , PlotRange  $\rightarrow \{\{-20, 20\}, \{-20, 10\}\}$ , Axes  $\rightarrow$  False, RegionFunction  $\rightarrow$  Function[ $\{x, y\}, -3.66 < x < -2.96 && y < -4]$ , ImageSize  $\rightarrow$  Full, PlotStyle  $\rightarrow$  RGBColor[0.8, 0.12, 0.23]];

p83 = Plot [y /. Solve 
$$\left[\frac{(x+5)^2}{1.5} - \frac{(y+5.4)^2}{2.2} == 1\right]$$
,

 $\{x, -20, 20\}$ , PlotRange  $\rightarrow \{\{-20, 20\}, \{-20, 10\}\}$ , Axes  $\rightarrow$  False, RegionFunction  $\rightarrow$  Function[ $\{x, y\}, -4 < x < -3.65 && y > -5.4$ ], ImageSize  $\rightarrow$  Full, PlotStyle  $\rightarrow$  RGBColor[0.8, 0.12, 0.23]];

p84 = Plot[y /. Solve[
$$\frac{(x+5)^2}{1.5} - \frac{(y+5.4)^2}{2.2} == 1$$
],

 $\{x, -20, 20\}$ , PlotRange  $\rightarrow$   $\{\{-20, 20\}, \{-20, 10\}\}$ , Axes  $\rightarrow$  False, RegionFunction  $\rightarrow$  Function[ $\{x, y\}, -4 < x < -2.36 && y < -5.4$ ], ImageSize  $\rightarrow$  Full, PlotStyle  $\rightarrow$  RGBColor[0.8, 0.12, 0.23]];

```
ov5 = Overlay[{p66, p67, p68, p69, p70, p71, p72, p73, p74, p75, p75, p76, p77, p78, p79, p80, p81, p82, p83, p84}]
```



### Right Forehead and Eye

```
 p85 = Plot \left[ y \text{ /. Solve} \left[ \frac{\left( x - 2 \right)^2}{0.9} + \frac{\left( y + 2.5 \right)^2}{1.2} \right] = 1 \right], \\ \left\{ x, -20, 20 \right\}, PlotRange \rightarrow \left\{ \left\{ -20, 20 \right\}, \left\{ -20, 10 \right\} \right\}, Axes \rightarrow False, \\ RegionFunction \rightarrow Function \left[ \left\{ x, y \right\}, x > 2.25 \& y > -2.5 \right], \\ ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor \left[ 0.8, 0.12, 0.23 \right] \right]; \\ p86 = Plot \left[ y \text{ /. Solve} \left[ \frac{\left( x - 2 \right)^2}{0.9} + \frac{\left( y + 2.5 \right)^2}{1.2} \right] = 1 \right], \\ \left\{ x, -20, 20 \right\}, PlotRange \rightarrow \left\{ \left\{ -20, 20 \right\}, \left\{ -20, 10 \right\} \right\}, Axes \rightarrow False, \\ RegionFunction \rightarrow Function \left[ \left\{ x, y \right\}, x > 2.91 \& y < -2.5 \right\}, \\ ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor \left[ 0.8, 0.12, 0.23 \right] \right]; \\ p87 = Plot \left[ y \text{ /. Solve} \left[ \left( x - 2.8 \right)^2 + \left( y + 3.8 \right)^2 \right] = 1 \right], \\ \left\{ x, -20, 20 \right\}, PlotRange \rightarrow \left\{ \left\{ -20, 20 \right\}, \left\{ -20, 10 \right\} \right\}, Axes \rightarrow False, \\ RegionFunction \rightarrow Function \left[ \left\{ x, y \right\}, 2.9 < x < 3.77 \& y > -3.6 \right\}, \\ ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor \left[ 0.8, 0.12, 0.23 \right] \right]; \\ p88 = Plot \left[ 2.1 Sin \left[ 0.65 \left( x - 1.2 \right) \right] - 5.6, \left\{ x, 1.47, 3.76 \right\}, PlotRange \rightarrow \left\{ \left\{ -20, 20 \right\}, \left\{ -20, 10 \right\} \right\}, Axes \rightarrow False, ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor \left[ 0.8, 0.12, 0.23 \right] \right];
```

ImageSize → Full, PlotStyle → RGBColor[0.8, 0.12, 0.23]];

$$p97 = Plot\left[y \text{ /. Solve}\left[\frac{\left(x-2.64\right)^2}{0.07} + \frac{\left(y+4.65\right)^2}{0.15} == 1\right],$$

$$\left\{x, -20, 20\right\}, PlotRange \rightarrow \left\{\{-20, 20\right\}, \left\{-20, 10\right\}\right\}, Axes \rightarrow False,$$

$$RegionFunction \rightarrow Function\left\{\left(x, y\right), x > 2.38 \& y < -4.65\right\},$$

$$ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor\left[0.8, 0.12, 0.23\right]\right];$$

$$p98 = Plot\left[y \text{ /. Solve}\left[\frac{\left(x-2.64\right)^2}{0.07} + \frac{\left(y+4.65\right)^2}{0.15} == 1\right],$$

$$\left\{x, -20, 20\right\}, PlotRange \rightarrow \left\{\{-20, 20\right\}, \left\{-20, 10\right\}\right\}, Axes \rightarrow False,$$

$$RegionFunction \rightarrow Function\left\{\left\{x, y\right\}, x > 2.78 \& y > -4.65\right\},$$

$$ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor\left[0.8, 0.12, 0.23\right]\right];$$

$$p99 = Plot\left[y \text{ /. Solve}\left[\frac{\left(x-2.64\right)^2}{0.3} + \frac{\left(y+4.65\right)^2}{1.4} == 1\right],$$

$$\left\{x, -20, 20\right\}, PlotRange \rightarrow \left\{\{-20, 20\right\}, \left\{-20, 10\right\}\right\}, Axes \rightarrow False,$$

$$RegionFunction \rightarrow Function\left\{\left\{x, y\right\}, x > 3.11 \& y > -4.65\right\},$$

$$ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor\left[0.8, 0.12, 0.23\right]\right];$$

$$p100 = Plot\left[y \text{ /. Solve}\left[\frac{\left(x-2.64\right)^2}{0.3} + \frac{\left(y+4.65\right)^2}{1.4} == 1\right],$$

$$\left\{x, -20, 20\right\}, PlotRange \rightarrow \left\{\{-20, 20\right\}, \left\{-20, 10\right\}\right\}, Axes \rightarrow False,$$

$$RegionFunction \rightarrow Function\left\{\left\{x, y\right\}, x > 2.98 \& y < -4.65\right\},$$

$$ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor\left[0.8, 0.12, 0.23\right]\right];$$

$$p101 = Plot\left[y \text{ /. Solve}\left[\frac{\left(x-2.45\right)^2}{1.5} + \frac{\left(y+4.5\right)^2}{1.4} == 1\right],$$

$$\left\{x, -20, 20\right\}, PlotRange \rightarrow \left\{\{-20, 20\right\}, \left\{-20, 10\right\}\right\}, Axes \rightarrow False,$$

$$RegionFunction \rightarrow Function\left\{\left\{x, y\right\}, 2.98 < x < 3.665 \& y < -4.5\right\},$$

$$ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor\left[0.8, 0.12, 0.23\right]\right];$$

$$p102 = Plot\left[y \text{ /. Solve}\left[\frac{\left(x-4.3\right)^2}{0.2} - \frac{\left(y+5.4\right)^2}{0.5} == 1\right],$$

$$\left\{x, -20, 20\right\}, PlotRange \rightarrow \left\{\{-20, 20\right\}, \left\{-20, 10\right\}\right\}, Axes \rightarrow False,$$

$$RegionFunction \rightarrow Function\left\{\left\{x, y\right\}, 3.64 < x < 4 \& y > -5.4\right\},$$

$$ImageSize \rightarrow Full, PlotStyle \rightarrow RGBColor\left[0.8, 0.12, 0.23\right]\right];$$

$$p103 = Plot\left[y \text{ /. Solve}\left[\frac{\left(x-4.3\right)^2}{0.2} - \frac{\left(y+5.4\right)^2}{0.5} == 1\right],$$

 $\{x, -20, 20\}$ , PlotRange  $\rightarrow \{\{-20, 20\}, \{-20, 10\}\}$ , Axes  $\rightarrow$  False, RegionFunction  $\rightarrow$  Function[ $\{x, y\}, 2.41 < x < 4 \& y < -5.4$ ], ImageSize  $\rightarrow$  Full, PlotStyle  $\rightarrow$  RGBColor[0.8, 0.12, 0.23]];

```
ov6 = Overlay[{p85, p86, p87, p88, p89, p90, p91, p92, p93, p94, p95, p96, p96, p97, p98, p99, p100, p101, p102, p103}]
```



#### Nose

```
 p104 = Plot\left[y \text{ /. Solve}\left[\frac{x^2}{8.6} + \frac{\left(y + 10\right)^2}{9} == 1\right], \\ \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \text{ Axes } \rightarrow \text{False}, \\ \text{RegionFunction} \rightarrow \text{Function}\left[\{x, y\}, \left(-2.38 < x < -0.96 \mid \mid 0.96 < x < 2.42\right) \&\& y > -8.5\right], \\ \text{ImageSize} \rightarrow \text{Full}, PlotStyle \rightarrow \text{RGBColor}\left[0.8, 0.12, 0.23\right]\right]; \\ p105 = Plot\left[y \text{ /. Solve}\left[\frac{x^2}{4.7} + \frac{\left(y + 10\right)^2}{10} == 1\right], \\ \{x, -20, 20\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \text{ Axes } \rightarrow \text{False}, \\ \text{RegionFunction} \rightarrow \text{Function}\left[\{x, y\}, \left(-2.1671 < x < -0.96 \mid \mid 0.96 < x < 2.1671\right) \&\& y > -10\right], \\ \text{ImageSize} \rightarrow \text{Full}, PlotStyle \rightarrow \text{RGBColor}\left[0.8, 0.12, 0.23\right]\right]; \\ p106 = Plot\left[-0.3 \cos\left[2.5 \left(x + 0.65\right)\right] - 10.15, \\ \{x, -2.17, -0.2\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \text{ Axes } \rightarrow \text{False}, \\ \text{ImageSize} \rightarrow \text{Full}, PlotStyle \rightarrow \text{RGBColor}\left[0.8, 0.12, 0.23\right]\right]; \\ p107 = Plot\left[-0.2 \tan\left[2.2 \left(x - 0.6\right)\right] - 9.55, \\ \{x, -1.44, -0.23\}, PlotRange \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \text{ Axes } \rightarrow \text{False}, \\ \text{ImageSize} \rightarrow \text{Full}, PlotStyle} \rightarrow \text{RGBColor}\left[0.8, 0.12, 0.23\right]\right]; \\ p107 = Plot\left[-0.2 \tan\left[2.2 \left(x - 0.6\right)\right] - 9.55, \\ \{x, -1.44, -0.23\}, PlotRange} \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \text{ Axes } \rightarrow \text{False}, \\ \text{ImageSize} \rightarrow \text{Full}, PlotStyle} \rightarrow \text{RGBColor}\left[0.8, 0.12, 0.23\right]\right]; \\ p107 = Plot\left[-0.2 \tan\left[2.2 \left(x - 0.6\right)\right] - 9.55, \\ \{x, -1.44, -0.23\}, PlotRange} \rightarrow \{\{-20, 20\}, \{-20, 10\}\}, \text{ Axes } \rightarrow \text{False}, \\ \text{ImageSize} \rightarrow \text{Full}, PlotStyle} \rightarrow \text{RGBColor}\left[0.8, 0.12, 0.23\right]\right]; \\ p108 = \frac{1}{2} \frac{x^2}{4.7} + \frac{\left(y + 10\right)^2}{10} = 10.15, \\ \left(x - 0.6\right) + \frac{1}{2} \frac{x^2}{4.7} + \frac{\left(y + 10\right)^2}{10} = 10.15, \\ \left(x - 0.6\right) + \frac{1}{2} \frac{x^2}{4.7} + \frac{\left(y + 10\right)^2}{10} = 10.15, \\ \left(x - 0.6\right) + \frac{1}{2} \frac{x^2}{4.7} + \frac{\left(y + 10\right)^2}{10} = 10.15, \\ \left(x - 0.6\right) + \frac{1}{2} \frac{x^2}{4.7} + \frac{1}{2} \frac{x^2}
```



### Mouth

```
 \begin{aligned} & \text{p111} = \text{Plot}\left[y \text{ /. Solve}\left[\frac{x^2}{5.1} + \frac{\left(y + 9.5\right)^2}{2.2} == 1\right], \\ & \{x, -20, 20\}, \, \text{PlotRange} \rightarrow \{\{-20, 20\}, \, \{-20, 10\}\}, \, \text{Axes} \rightarrow \text{False}, \\ & \text{RegionFunction} \rightarrow \text{Function}[\{x, y\}, -1.38 < x < 1.38 \&\& y < -10], \\ & \text{ImageSize} \rightarrow \text{Full}, \, \text{PlotStyle} \rightarrow \text{RGBColor}[0.8, 0.12, 0.23]\right]; \\ & \text{p112} = \text{Plot}\left[y \text{ /. Solve}\left[\frac{x^2}{3} + \frac{\left(y + 9\right)^2}{7.6} == 1\right], \, \{x, -20, 20\}, \, \text{PlotRange} \rightarrow \{\{-20, 20\}, \, \{-20, 10\}\}, \\ & \text{Axes} \rightarrow \text{False}, \, \text{RegionFunction} \rightarrow \text{Function}[\{x, y\}, -1.38 < x < 1.38 \&\& y < -10], \\ & \text{ImageSize} \rightarrow \text{Full}, \, \text{PlotStyle} \rightarrow \text{RGBColor}[0.8, 0.12, 0.23]\right]; \end{aligned}
```

ov8 = Overlay[{p111, p112}]



#### Beard

$$\begin{aligned} &\text{p117} = \text{Plot}\left[y \: / . \: \text{Solve}\left[\frac{\left(x-2.15\right)^2}{1.7} + \frac{\left(y+13.4\right)^2}{0.9} = = 1\right], \\ &\left\{x, -20, 20\right\}, \: \text{PlotRange} \to \left\{(-20, 20), \: \left\{-20, 10\right\}\right\}, \: \text{Axes} \to \text{False}, \\ &\text{RegionFunction} \to \text{Function}\left[\left\{x, y\right\}, \: x < 1.478 \& y > -13.4\right\}, \\ &\text{ImageSize} \to \text{Full}, \: \text{PlotStyle} \to \text{RGBColor}\left[0.8, \: 0.12, \: 0.23\right]\right]; \\ &\text{p118} = \text{Plot}\left[y \: / . \: \text{Solve}\left[\frac{\left(x-2.15\right)^2}{1.7} + \frac{\left(y+13.4\right)^2}{0.9} = = 1\right], \\ &\left\{x, -20, 20\right\}, \: \text{PlotRange} \to \left\{\{-20, 20\right\}, \: \left\{-20, 10\right\}\right\}, \: \text{Axes} \to \text{False}, \\ &\text{RegionFunction} \to \text{Function}\left[\left\{x, y\right\}\right\}, \: x < 0.92 \& y < -13.4\right\}, \\ &\text{ImageSize} \to \text{Full}, \: \text{PlotStyle} \to \text{RGBColor}\left[0.8, \: 0.12, \: 0.23\right]\right]; \\ &\text{p119} = \text{Plot}\left[0.8 \times^2 - 1.5 \times -13, \: \left(x, -20, 20\right), \: \text{PlotRange} \to \left\{(-20, 20), \: \left\{-20, 10\right\}\right\}, \\ &\text{Axes} \to \text{False}, \: \text{RegionFunction} \to \text{Function}\left\{x, \: 0.3 \times x < 0.92\right\}, \\ &\text{ImageSize} \to \text{Full}, \: \text{PlotStyle} \to \text{RGBColor}\left[0.8, \: 0.12, \: 0.23\right]\right]; \\ &\text{p120} = \text{Plot}\left[y \: / . \: \text{Solve}\left[\frac{\left(x-0.6\right)^2}{0.1} + \frac{\left(y+13.8\right)^2}{0.6} = 1\right], \\ &\left\{x, -20, 20\right\}, \: \text{PlotRange} \to \left\{(-20, 20), \: \left\{-20, 10\right\}\right\}, \: \text{Axes} \to \text{False}, \\ &\text{RegionFunction} \to \text{Function}\left\{\left\{x, y\right\}, \: x < 0.33 \& y > -13.8\right\}, \\ &\text{ImageSize} \to \text{Full}, \: \text{PlotStyle} \to \text{RGBColor}\left[0.8, \: 0.12, \: 0.23\right]\right]; \\ &\text{p121} = \text{Plot}\left[y \: / . \: \text{Solve}\left[\frac{\left(x-0.6\right)^2}{0.1} + \frac{\left(y+13.8\right)^2}{0.6} = 1\right], \\ &\left\{x, -20, 20\}, \: \text{PlotRange} \to \left\{(-20, 20), \: \left\{-20, 10\right\}\right\}, \: \text{Axes} \to \text{False}, \\ &\text{RegionFunction} \to \text{Function}\left\{\left\{x, y\right\}, \: x < 0.33 \& y > -13.8\right\}, \\ &\text{ImageSize} \to \text{Full}, \: \text{PlotStyle} \to \text{RGBColor}\left[0.8, \: 0.12, \: 0.23\right]\right]; \\ &\text{p122} = \text{Plot}\left[y \: / . \: \text{Solve}\left[\frac{\left(x-0.6\right)^2}{0.1} + \frac{\left(y+13.8\right)^2}{0.6} = 1\right], \\ &\left\{x, -20, 20, p\right\}, \: \text{PlotRange} \to \left\{(-20, 20), \: \left\{-20, 10\}\right\}, \: \text{Axes} \to \text{False}, \\ &\text{RegionFunction} \to \text{Function}\left\{\left\{x, y\right\}, \: x < 0.48 \& y < -13.8\right\}, \\ &\text{ImageSize} \to \text{Full}, \: \text{PlotStyle} \to \text{RGBColor}\left[0.8, \: 0.12, \: 0.23\right]\right]; \\ &\text{p123} = \text{Plot}\left[y \: / . \: \text{Solve}\left[\frac{\left(x-0.5\right)^2}{1.5} + \frac{\left(y+13.8\right)^2}{2.3} = 1\right],$$

ov9 = Overlay[{p113, p114, p115, p116, p117, p118, p119,
 p120, p121, p122, p123, p124, p125, p126, p127, p128, p129, p130}]



## **Complete Goat**

Window: -20 < x < 20, -20 < y < 10

Overlay[{ov1, ov2, ov3, ov4, ov5, ov6, ov7, ov8, ov9}]

