

4

- a) $x^2 + y^2 - z^2 = 1$, no change
- b) $x^2 + y^2 - z^2 = 1$, no change
- c) $x^2 + y^2 - z^2 = 1$, no change
- d) $x^2 + y^2 - z^2 = 1$, no change
- e) $-x^2 + y^2 + z^2 = 1$, opens in x-direction
- f) $x^2 - y^2 + z^2 = 1$, opens in y-direction

#14 Hyperboloid of one sheet

#26 Hyperboloid of two sheets

#34 Hyperboloid of one sheet

#40

- a) $\frac{x^2}{4} - \frac{y^2}{4} = 1$
- b) $(\pm 2, 0, -4)$
- c) $(\pm 2\sqrt{2}, 0, -4)$
- d) x-axis