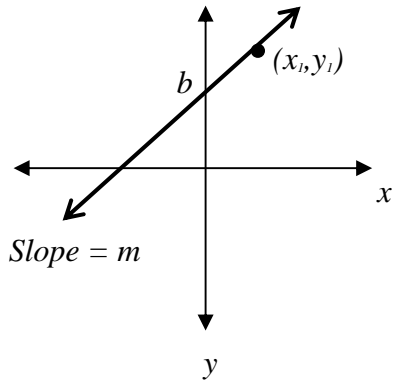
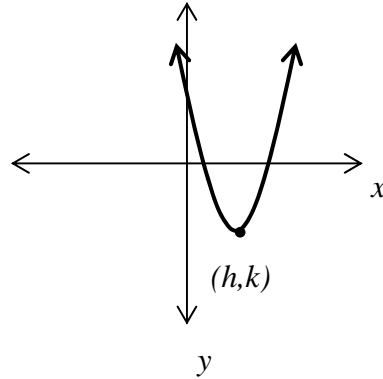


Common Graphs

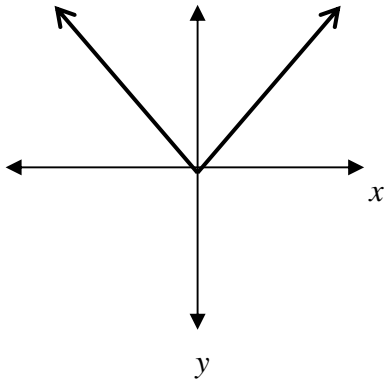
1. **Line:** $y = mx + b$ or $y - y_1 = m(x - x_1)$



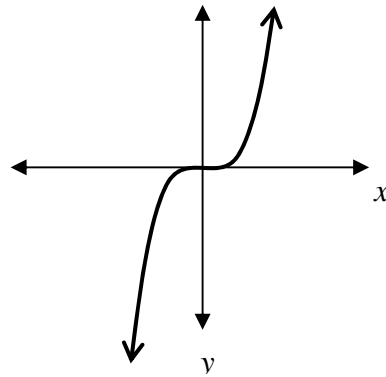
2. **Parabola:** $y = a(x - h)^2 + k$



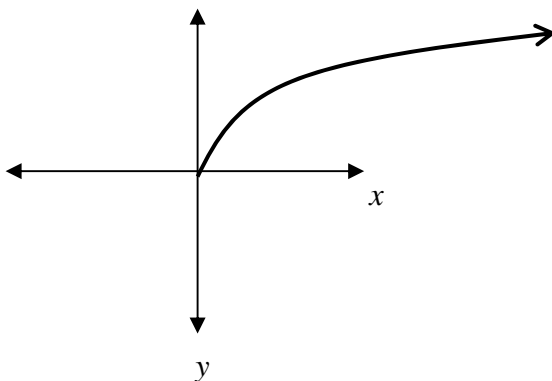
3. **Absolute Value:** $y = |x|$



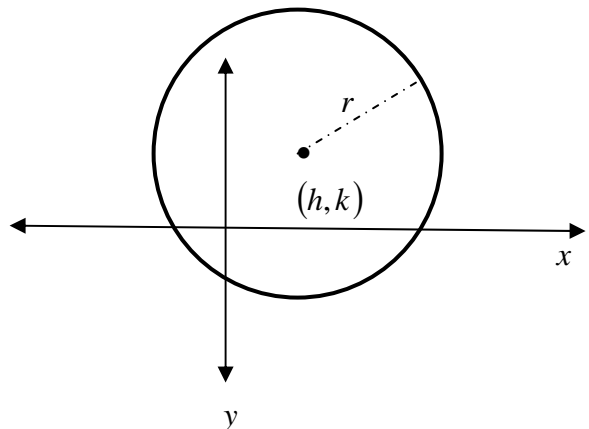
4. **Cubic:** $y = x^3$



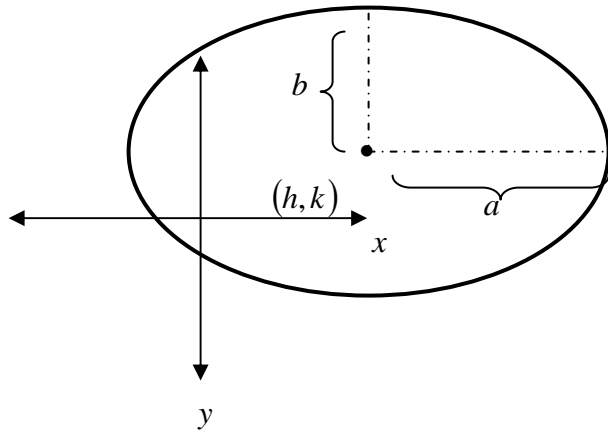
5. **Square Root:** $y = \sqrt{x}$



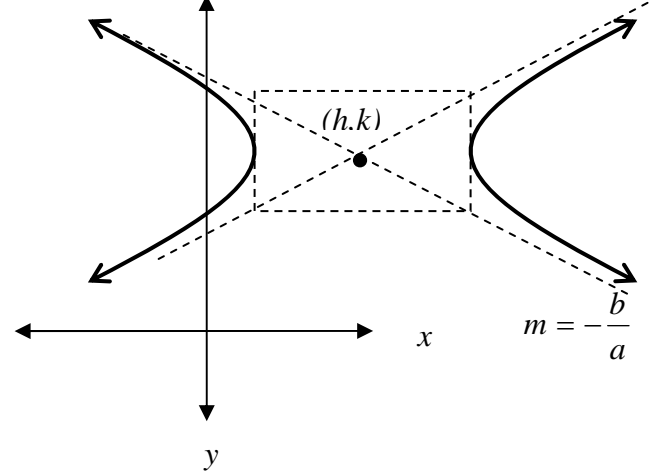
6. **Circle:** $(x - h)^2 + (y - k)^2 = r^2$



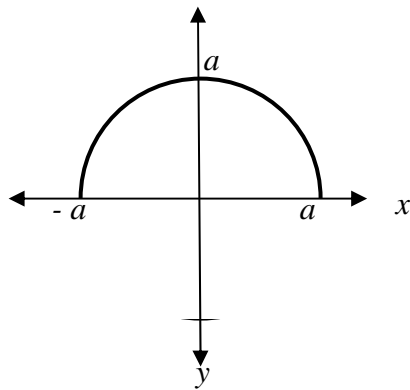
7. **Ellipse:** $\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$



8. **Hyperbola:** $\frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$ $m = \frac{b}{a}$

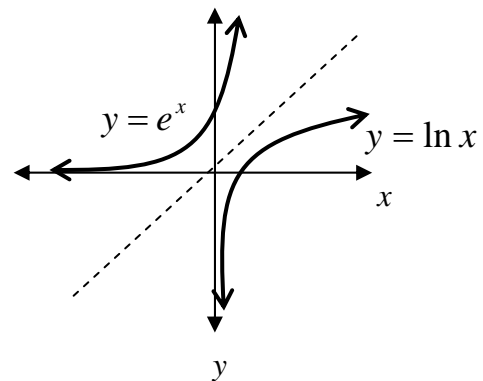


9. **Semi-circle:** $y = \sqrt{a^2 - x^2}$

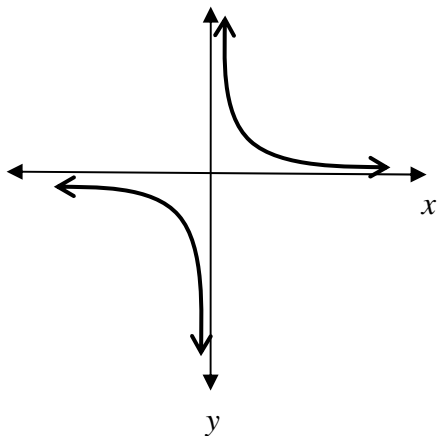


10. **Exponential:** $y = e^x$

Logarithmic: $y = \ln x$



11. **Reciprocal:** $y = \frac{1}{x}$



12. **Greatest Integer:** $y = \lfloor x \rfloor$

