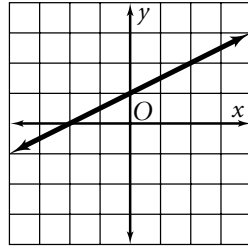


Linear Function

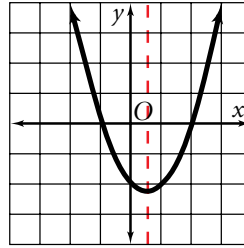
$$y = mx + b$$



slope = m
 y -intercept = b

Quadratic Function

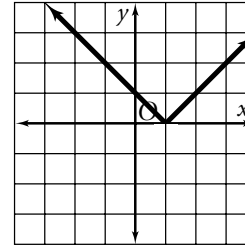
$$y = ax^2 + bx + c$$



parabola with axis of symmetry at $x = -\frac{b}{2a}$

Absolute Value Function

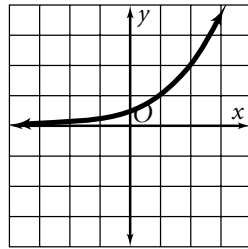
$$y = |x - b|$$



V-Shape with vertex at $(b, 0)$

Exponential Function

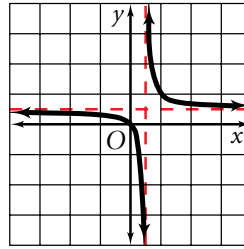
$$y = ab^x$$



growth for $b > 1$
 decay for $0 < b < 1$

Rational Function

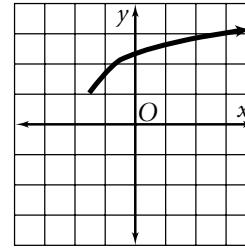
$$y = \frac{k}{x - b} + c$$



vertical asymptote at $x = b$

Radical Function

$$y = \sqrt{x - b} + c$$



shift horizontally b units
 shift vertically c units