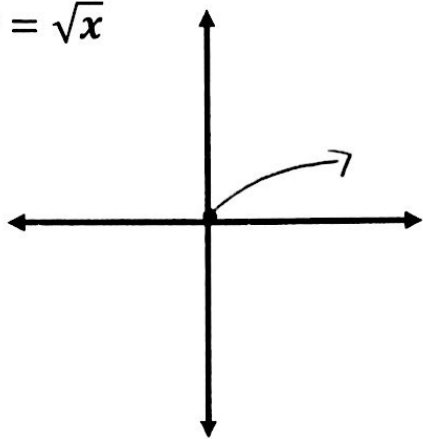


Types of Graphs:

Chapter 6: Square and Cube Root Functions

1. $y = \sqrt{x}$

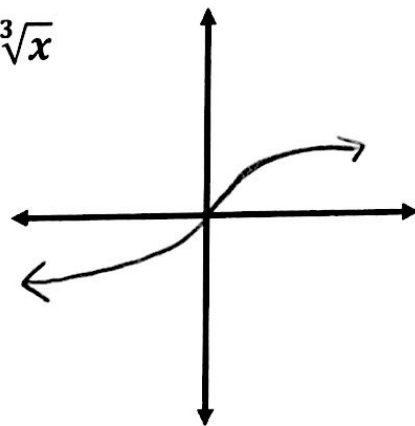


Domain: $[0, \infty)$

Range: $[0, \infty)$

* look for shifting

2. $y = \sqrt[3]{x}$

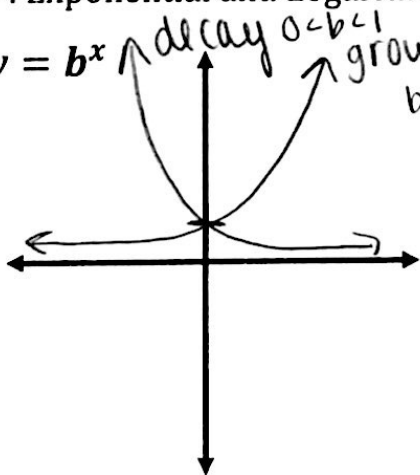


Domain: $(-\infty, \infty)$ OR \mathbb{R}

Range: $(-\infty, \infty)$ OR \mathbb{R}

Chapter 7: Exponential and Logarithmic Functions

1. $y = b^x$

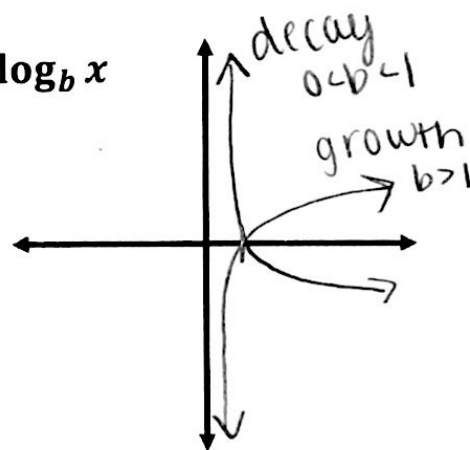


Domain: $(-\infty, \infty)$ OR \mathbb{R}

Range: $(0, \infty)$

* look for shifting

2. $y = \log_b x$

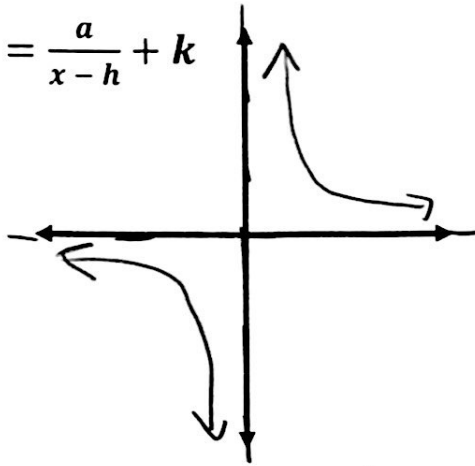


Domain: $(0, \infty)$

Range: $(-\infty, \infty)$ OR \mathbb{R}

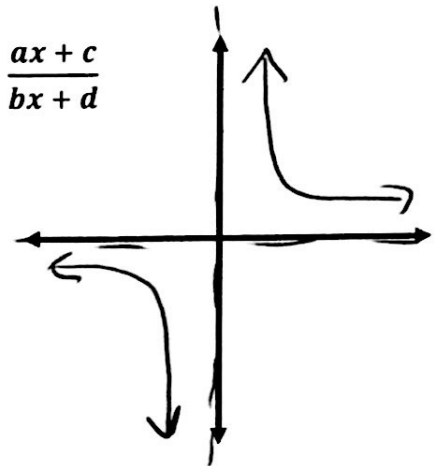
Chapter 8: Rational Functions

1. $y = \frac{a}{x-h} + k$



Domain: $\mathbb{R}, x \neq h$
 ↑
 asymptote
 Range: $\mathbb{R}, y \neq k$
 ↑
 asymptote

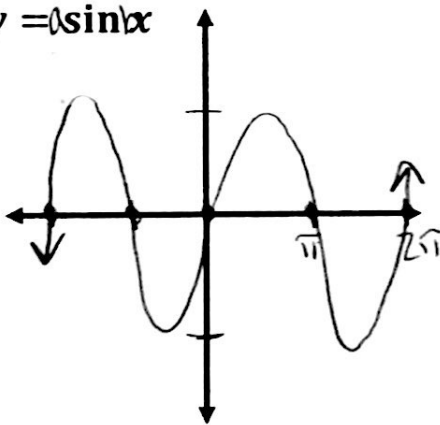
2. $y = \frac{ax+c}{bx+d}$



Domain: $\mathbb{R}, x \neq -\frac{d}{b}$
 ↑
 asymptote
 Range: $\mathbb{R}, y \neq \frac{a}{b}$
 ↑
 asymptote

Chapter 13: Sine and Cosine Functions

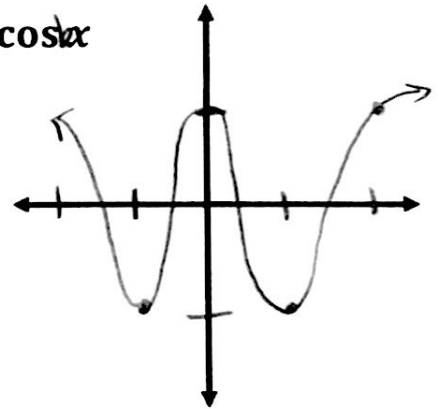
1. $y = a \sin bx$



Amplitude: a 1

Period: $\frac{2\pi}{b}$ 2π

2. $y = a \cos bx$



Amplitude: a 1

Period: $\frac{2\pi}{b}$ 2π