

Section 10.1—Radical Expressions & Functions

RADICAL Review

$\sqrt{49}$

$\sqrt{-25}$

$-\sqrt{100}$

$\pm\sqrt{100}$

$\sqrt[3]{-27}$

$\sqrt[3]{-125}$

$\sqrt[5]{32}$

$\sqrt[3]{-\frac{64}{125}}$

 $\sqrt{4}$ is RATIONAL $\sqrt{5}$ is IRRATIONAL $\sqrt{-4}$ is NOT REAL

**What is the difference
between RATIONAL,
IRRATIONAL and NOT
REAL?**

Radical Vocabulary

$$\sqrt{a}$$

Example Given $f(x) = \sqrt{3x+2}$, find $f(3)$ and $f(-5)$. What is the domain?

**How do I find the
DOMAIN of a square
root function?**

1. Set the _____ greater than or equal to _____.
Why??

2. _____ the inequality. This is your _____.

Example Given $f(x) = \sqrt{-2x + 6}$, find the domain.

Summary: