

1. Unit Circle Memorization Quiz
2. HW ???s
3. Unit 1 Review
4. Keeper, HW Packet, & Prerequisite Packet all due tomorrow
5. UNIT 1 TEST TOMORROW!

Domain restrictions Put x on # line + test pts.

Rational (x in denom) $denom \neq 0$
 $(-\infty, \#) \cup (\#, \#_2) \cup (\#_2, \infty)$

Even roots ($\sqrt{\quad}$ or $\sqrt[4]{\quad}$) radicand ≥ 0
 $[-\infty, \quad] \cup [$

Logs (\log) > 0 $(-\infty, ?) \cup (?, \infty)$
 \ln $(-\infty, ?) \cup (?, ?) \cup (?, \infty)$

Anything else (polynomials, odd roots, abs. value, etc.)
 $(-\infty, \infty)$

Factoring (4)

- Guess + Check Trinomials
- Dif. of Squares
- Sum/Dif Cubes
- Grouping
- GCF 1st

Avg Rate of Change

- Find y's $[x_1, x_2)$
 - $m = \frac{y_2 - y_1}{x_2 - x_1}$
 - From function or table
- ~~$\frac{3-3}{-1-0}$~~ $(-1, 3)$ $(0, \frac{2}{7})$
 x_1, y_1 x_2, y_2

Pt.-Slope Form

$$y - y_1 = m(x - x_1)$$

PT (x_1, y_1)
 Slope = m

Piecewise

- evaluating from function

Transformations

- on a graph
- describe

$$a(x-h)^2 + k$$

Domain (3 or 4)

Compositions

- from graph
- using functions

Exp / Logs

- Prop of Exp. (look at ex in notes)
- Simplify w/ prop. of logs
- Condense \leftrightarrow Expand

Trig

- Exact Values (4?)
- Simplify w/ trig identities

HW packet: p. 13-15 (omit #14)
21-23

$$10a. \ln(\ln(e^7))(5 \ln e^{-x})$$