

Precalculus:

Homework  
3/5-3/9

on: Tuesday: test

due: Wednesday: read pg. 300

1. pg. 308 / #1, 2, 4, 5, 20, 22

2. Solve for  $x$ :

a.  $\log_2 x = 5$

c.  $\log_3(x + 1) = 2$

e.  $\log_6(x^2 - 2x + 1) = 0$

b.  $\log_x \frac{1}{125} = -3$

d.  $\log_2 x = -2$

3. Express in log form:

a.  $y = 7^x$

b.  $x + y = 2^8$

4. Express in exponential form:

a.  $\log_2 x = y$

b.  $\log_3 \left(\frac{x}{4}\right) = -2$

Thursday: read pp. 310 – 312

1. pg. 317 / #5, 7, 11, 14, 18, 20

2. Evaluate: a.  $\log_{10} 10$

b.  $\log_{27} 81$

3. Solve for  $x$ : a.  $\log_9 x = 2$

b.  $\log_x 64 = \frac{3}{2}$

Friday:

1. pg. 331 / #7, 10

2. Solve for  $x$ : a.  $\log_x(1 - x) = 1$

e.  $\frac{1}{2} \log_3(x + 1) = 2$

b.  $\log(x - 1) = 3$

f.  $\log_2 x + \log_2(x + 3) = 2$

c.  $\log_x(12 - x) = 2$

g.  $\log_5(x + 1) + \log_5 x = \log_5 2$

d.  $3 \log_2 x = 4$

h.  $\log_8(x + 4) - \log_8 x = \log_8 3$

Monday:

pg. 331 / #6, 11, 12