

Precalculus:

Homework

3/12-3/16

due: Tuesday: read pp. 300, 305-306

Graph: 1. $y = \log_3 x$ 2. $y = \log_{3/2} x$ 3. $y = \log_{1/4} x$

on: Wednesday: test

due: Friday: read pp. 534-537

1. pp. 539-540 / #8, 12, 13, 21, 27, 58, 59
2. Change to polar coordinates: $(-10, 0)$
3. Change to rectangular coordinates: $(-3, 135^\circ)$
4. Graph: $(-2, -120^\circ)$
5. Write a pair of coordinates equivalent to $(4, 60^\circ)$ such that $r < 0$.
6. Write a pair of coordinates equivalent to $(-3, \frac{-3\pi}{2})$ such that $r > 0$ and $\theta > 0^\circ$.

Monday: read pp. 537-538

1. pg. 540 / #38, 46, 63, 64
2. Find the distance between the given points:
 - a. $(3, \frac{\pi}{6})$ $(4, \frac{\pi}{3})$
 - b. $(5, 180^\circ)$ $(-6, -90^\circ)$
3. Change to polar coordinates:
 - a. $x^2 + y^2 = 10$
 - b. $x^2 + y^2 + 3y = 0$
4. Change to rectangular coordinates:
 - a. $r = 6$
 - b. $r = \frac{2}{3\cos\theta + 5\sin\theta}$