

Precalculus:

Homework

11/27-12/1

due: Tuesday:

Graph: 1. $y = \frac{x+1}{x^2-1}$ 2. $h(x) = \frac{x^2-3x-10}{x-5}$

on: Wednesday: test

due: Thursday: read pp. 350-354, 370-371

1. Determine the quadrant in which the terminal side of each angle in standard position lies: (a) -827° (b) 1150° (c) $\frac{15\pi}{4}rad$ (d) $-\frac{17\pi}{3}rad$
2. Find two angles, one positive and one negative, coterminal with the given angle: (a) 110° (b) -205° (c) 523°
3. Change to radians:
(a) 75° (b) 130° (c) -240°
4. Change to degrees:
(a) $\frac{\pi}{10}$ (b) $\frac{13\pi}{20}$ (c) 2

Friday: read pg. 353

1. S denotes the length of the arc of radius r subtended by the central angle θ . Find the remaining quantity. (a) $r = 10m, \theta = \frac{1}{2}rad$ (b) $\theta = \frac{1}{3}rad, S = 2ft$
(c) $r = 5miles, S = 3miles$ (d) $r = 2in, \theta = 30^\circ$
2. A denotes the area of the sector of a circle of radius r formed by the central angle θ . Find the remaining quantity. (a) $r = 6ft, \theta = 2rad$
(b) $\theta = \frac{1}{4}rad, A = 6cm^2$ (c) $r = 6m, A = 8m^2$ (d) $r = 3in, \theta = 120^\circ$

Monday: read pp. 360-363

1. pg. 366 / #3, 7, 12, 16
2. In what quadrant would angle x lie?
(a) $\sin x < 0, \cot x > 0$ (c) $\cos x < 0, \tan x < 0$
(b) $\sec x > 0, \csc x > 0$ (d) $\csc x < 0, \cos x > 0$