

# PRECALCULUS

**Thursday, Aug. 18**

Sec. 0-1 p. P5 (*special pages at front of book*)  
9-16, 20, 21, 23  
Interval Notation Problems on back  
of this sheet  
Double check calculator settings (See back)

Things to do by Wed., Aug. 24  
(& earn extra credit:)

\*Complete Google Form Survey  
\*Sign up for Remind (*Extra Credit!*)  
Send text to: 81010  
P2: @ncprecalc2    P3: @ncprecalc3

**Monday, Aug. 22**

Sec. 1-1 pp. 9-11  
17-28, 31a, 33b, 49, 52, 76

Domain Handout

Answer to 33b:  $\frac{375x^3}{25x^2+5x-4}$

**Wednesday, Aug. 24**

Sec. 1-6 pp. 61-63  
31, 35, 39

Function Operations Handout

*Journals Due Next Class!*

*Extra Credit*  
*Wednesday is the last day to*  
*sign up for Remind & complete*  
*the Google form survey to earn*  
*extra credit!*

**Friday, Aug. 26**

Quick Review of Matrix Equations

Review Functions Unit

*Journal Due*

**Tuesday, Aug. 30**

## FUNCTIONS TEST

## EVEN ANSWERS

### Sec. 0-1 pp. P5

- 10. True; 8 is not an element of A
- 12. False; Not all of the elements of U are also elements of A.
- 14. True; 2 is an element of E
- 16. True; 6 is not an element of F.
- 20.  $\emptyset$

### Sec. 1-1 pp. 9-11

- 18. not a function
- 20. function
- 22. not a function
- 24. not a function
- 26. not a function
- 28. function
- 52. a) \$700, \$2282.50, \$16,886.25  
b) \$728.50
- 76. a)  $A = \frac{C^2}{4\pi}$   
b) 0.02, 1.27  
c) As the circumference increases, the area increases.

### Calculator Settings:

- 1) From the Home screen:
  - a. Select a Scratchpad Calculate page
  - b. Press Doc--#7--#2
  - c. Set Display Digits to "Float"
  - d. Set Angle to "Degree"
- 2) From the Home screen:
  - a. Select a Scratchpad Graph page
  - b. Press Menu--#8
  - c. Set Display Digits to "Auto"
  - d. Set Geometry Angle to "Degree"

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## INTERVAL NOTATION

On a separate piece of paper, (a) graph each interval on a number line, (b) find and shade the indicated intersection or union, (c) write the solution in interval notation.

- 1.  $(-\infty, 5] \cup (-1, 84)$
- 2.  $[-17, -8) \cap [-15, -2)$
- 3.  $[(-\infty, -3) \cup [5, \infty)] \cap (-7, 20)$
- 4.  $(-8, \infty) \cup (-\infty, -6)$
- 5.  $(-\infty, 0) \cup [-3, 1] \cup (1, 2)$
- 6.  $[-7, -2) \cap (-2, \infty)$

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## INTERVAL NOTATION ANSWERS

- 1.  $(-\infty, 84)$
- 2.  $[-15, -8)$
- 3.  $(-7, -3) \cup [5, 20)$
- 4.  $(-\infty, \infty)$
- 5.  $(-\infty, 2)$
- 6.  $\emptyset$