

**Math 1312**  
**Homework 11**

Enter your answers in the EMCF titled “Homework 11” at casa.uh.edu before the due date/time. If a problem comes from the exercises in the textbook then Problem 1.2.6 refers to Chapter 1, Section 2, problem number 6 etc.

1. Problem 5.2.4
  - A. Yes, Yes
  - B. Yes, No
  - C. No, Yes
  - D. No, No
  
2. Problem 5.2.6 b)
  - A.  $\overline{NX}$
  - B.  $\overline{TX}$
  - C.  $\overline{NT}$
  
3. Problem 5.2.18
  - A. 10
  - B. 12
  - C. 13
  - D. 15
  - E. None of the above
  
4. Problem 5.2.20
  - A. Trapezoids
  - B. Kites
  - C. Rhombi
  - D. Parallelograms
  
5. Problem 5.2.14
  - A.  $3\frac{3}{4}$
  - B.  $3\frac{2}{3}$
  - C.  $6\frac{2}{3}$
  - D. 7
  - E. None of the above
  
6. Problem 5.3.4
  - A. a) True, b) False
  - B. a) True, b) True
  - C. a) False, b) True
  - D. a) False, b) False

7. Problem 5.3.10
- A.  $AA\sim$
  - B.  $SSS\sim$
  - C.  $SAS\sim$
  - D.  $ASA\sim$
  - E. None of the above
8. Problem 5.3.12
- A.  $AA\sim$
  - B.  $SSS\sim$
  - C.  $SAS\sim$
  - D.  $ASA\sim$
  - E. None of the above
9. Problem 5.3.26
- A. 11
  - B. 10
  - C. 6
  - D. 5
  - E. None of the above
10. Problem 5.3.30
- A. 8
  - B. 10
  - C. 12
  - D. 16
  - E. None of the above
11. Problem 5.4.14 a)
- A. Acute
  - B. Right
  - C. Obtuse
  - D. Not a triangle
12. Problem 5.4.14 c)
- A. Acute
  - B. Right
  - C. Obtuse
  - D. Not a triangle
13. Problem 5.4.8 b)
- A. 6
  - B.  $6\sqrt{7}$
  - C.  $3\sqrt{14}$
  - D.  $9\sqrt{2}$
  - E. None of the above

14. Problem 5.4.22 Find the length of the longer leg only.

- A. 4
- B. 5
- C. 12
- D. 13
- E. None of the above

15. Problem 5.4.24

- A. 6
- B. 7
- C. 10
- D. 14
- E. None of the above