

**Math 1312**  
**Homework 2**

Enter your answers in the EMCF titled “Homework 2” 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 1.2.6
  - A. 1
  - B. 2
  - C. 3
  - D. 6
  - E. None of the above
  
2. Problem 1.2.28
  - A. Yes
  - B. No
  
3. Problem 1.2.34
  - A.  $\angle ABE$
  - B.  $\angle ABD$
  - C.  $\angle ABC$
  - D.  $\angle CBE$
  - E. None of the above
  
4. Problem 1.2.42
  - A.  $22^\circ$
  - B.  $68^\circ$
  - C.  $34^\circ$
  - D.  $136^\circ$
  - E. None of the above
  
5. Problem 1.2.44
  - A.  $x + y$
  - B.  $x - y$
  - C.  $xy$
  - D.  $180 - x - y$
  - E. None of the above
  
6. Problem 1.3.16. Find  $AB$  only.
  - A. 8
  - B. 18
  - C. 10
  - D. 36
  - E. None of the above

7. Problem 1.3.10 b)
- A. Infinitely many
  - B. 2
  - C. 1
  - D. 0
  - E. None of the above
8. Problem 1.3.18 The first two questions.
- A. Yes, Yes
  - B. Yes, No
  - C. No, Yes
  - D. No, No
9. Problem 1.3.24
- A.  $A$
  - B.  $B$
  - C.  $C$
  - D. None of the above
10. Problem 1.3.28 c)
- A.  $AC = CD$
  - B.  $AC > CD$
  - C.  $AC < CD$
  - D. Not possible to compare
11. Problem 1.4.4
- A. a) Congruent, b) Supplementary
  - B. a) Vertical, b) Complementary
  - C. a) Congruent, b) Adjacent
  - D. a) None, b) None
12. Problem 1.4.10 b) and d)
- A. b) True; d) True
  - B. b) True; d) False
  - C. b) False; d) True
  - D. b) False; d) False
13. Problem 1.4.14 a)
- A.  $x + y = 90$
  - B.  $x - y = 90$
  - C.  $x + y = 180$
  - D.  $x = y$
  - E. None of the above

14. For two supplementary angles find an expression for the measure of the second angle if the measure of the first is  $4x - 40$ .

- A.  $140 - 4x$
- B.  $220 - 4x$
- C.  $130 - 4x$
- D.  $130 + 4x$
- E. None of the above

15. Problem 1.4.32 b), c)

- A. b) True; c) True
- B. b) True; c) False
- C. b) False; c) True
- D. b) False; c) False