

Math 1312
Homework 5

Enter your answers in the EMCF titled “Homework 5” 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 2.3.2
 - A. $l \parallel m$
 - B. $l \nparallel m$
 - C. Not enough information to draw a conclusion.

2. Problem 2.3.4
 - A. $l \parallel m$
 - B. $l \nparallel m$
 - C. Not enough information to draw a conclusion.

3. Problem 2.3.8
 - A. $p \parallel q$
 - B. $l \parallel m$
 - C. $m \parallel n$
 - D. $l \parallel n$
 - E. No parallel lines based on the information given.

4. Problem 2.3.10
 - A. $p \parallel q$
 - B. $l \parallel m$
 - C. $m \parallel n$
 - D. $l \parallel n$
 - E. No parallel lines based on the information given.

5. Problem 2.3.14
 - A. $p \parallel q$
 - B. $l \parallel m$
 - C. $m \parallel n$
 - D. $l \parallel n$
 - E. No parallel lines based on the information given.

6. Problem 2.3.24
 - A. $x = 6$
 - B. $x = 16$
 - C. $x = 18$
 - D. $x = 20$
 - E. None of the above

7. Problem 2.4.2
- A. $m\angle A = 51^\circ$
 - B. $m\angle A = 59^\circ$
 - C. $m\angle A = 39^\circ$
 - D. $m\angle A = 82^\circ$
 - E. None of the above
8. Problem 2.4.8 a)
- A. Scalene
 - B. Isosceles
 - C. Equiangular
 - D. None of the above
9. Problem 2.4.10 b)
- A. Acute
 - B. Right
 - C. Obtuse
 - D. Equilateral
 - E. None of the above
10. Problem 2.4.14. Find $m\angle 5$ only.
- A. $m\angle 5 = 51^\circ$
 - B. $m\angle 5 = 106^\circ$
 - C. $m\angle 5 = 125^\circ$
 - D. $m\angle 5 = 129^\circ$
 - E. None of the above
11. Problem 2.4.16. Find y only.
- A. $y = 47^\circ$
 - B. $y = 44^\circ$
 - C. $y = 72^\circ$
 - D. $y = 65^\circ$
 - E. None of the above
12. Problem 2.4.20
- A. x
 - B. $2x$
 - C. $180 - x$
 - D. $180 - 2x$
 - E. None of the above
13. Problem 2.4.24
- A. 6
 - B. 8
 - C. 5
 - D. 7

E. None of the above

14. Problem 2.4.26

A. 30

B. 60

C. 90

D. 120

E. None of the above

15. Problem 2.4.32

A. Acute

B. Obtuse

C. Right

D. Equiangular

E. None of the above