

Math 1314
Homework 22

Enter your answers in the EMCF titled “Homework 12” at casa.uh.edu before the due date/time.
In the problem numbers given below, Problem 6.1.12 refers to Chapter 6, Section 1, Problem 12.
The problems can be found in the online text.

1. Problem 6.1.12, Part C

- A. 65 B. 447 C. 14 D. 35 E. Not listed

2. Problem 6.1.12, Part D

- A. 154 B. 90 C. 190 D. 50 E. Not listed

3. Problem 6.1.16, Part D

- A. $\frac{-17}{8}$ B. $\frac{35}{16}$ C. $\frac{17}{8}$ D. $\frac{-9}{4}$ E. Not listed

4. Problem 6.1.22, Part C

- A. 4.2767 B. 4.0254 C. 4.2054 D. 4.7267 E. Not listed

5. Problem 6.1.26

- A. 5760 cm^2 B. 1030 cm^2
C. 4136 cm^2 D. 3256 cm^2
E. Not listed

6. Problem 6.1.34

- A. \$1594 B. \$1153 C. \$1366 D. \$1549 E. Not listed

7. Problem 6.1.38

- A. \$618 B. \$544 C. \$928 D. \$910 E. Not listed

For problems 8 – 10, find the domain of the function that is given in the problem in the answer bank that is given below.

8. $f(x, y) = 2x^2y - x^3 + 2y^2$

9. $f(x, y) = \frac{9x + 4y}{2x - y}$

10. $f(x, y) = \sqrt{2x - y}$

A. $\{(x, y) \mid x, y \text{ are real numbers}\}$

C. $\{(x, y) \mid y \leq \frac{1}{2}x\}$

E. $\{(x, y) \mid y \geq 2x\}$

G. $\{(x, y) \mid y \neq \frac{1}{2}x\}$

B. $\{(x, y) \mid y \neq 2x\}$

D. $\{(x, y) \mid y \geq \frac{1}{2}x\}$

F. $\{(x, y) \mid y \leq 2x\}$

H. answer is not listed