

Math 1314
Homework 23

Enter your answers in the EMCF titled “Homework 23” at casa.uh.edu before the due date/time. In the problem numbers given below, Problem 6.2.6 refers to Chapter 6, Section 2, Problem 6. The problems can be found in the online text.

1. Problem 6.2.6, Part A, find f_y .

- A. $-6xy - 10y + 5$
B. $-6xy - 8x - 10y - 3$
C. $-6xy - 8x - 10y$
D. $6xy - 8x - 10y - 3$
E. Not listed

2. Problem 6.2.6, Part B, find $f_y|_{(-1, 4)}$

- A. -17 B. -75 C. -11 D. -47 E. Not listed

3. Problem 6.2.6, Part C, find $f_x|_{(2, -3)}$

- A. 26 B. -28 C. 47 D. 20 E. Not listed

4. Problem 6.2.26, Part B, find $f_z|_{(-1, 1, 2)}$.

- A. -23 B. 23 C. 9 D. -16 E. Not listed

5. Problem 6.2.30.

- A. $10x + 8$
B. $4x + 10y + 8$
C. $10x - 8$
D. $2x^2 + 10xy + 8y$
E. Not listed

6. Problem 6.2.36.

- A. 28 B. 36 C. 26 D. 34 E. Not listed

7. Problem 6.2.48.

- A. 98 B. 128 C. 180 D. 66 E. Not listed

8. Problem 6.2.52.

- A. 180 B. 24 C. 90 D. 36 E. Not listed

9. Problem 6.2.64, find marginal productivity of capital.

- A. 19.2 units per unit increase in capital expenditure.
- B. 27.5 units per unit increase in capital expenditure.
- C. 26.1 units per unit increase in capital expenditure.
- D. 37.3 units per unit increase in capital expenditure.
- E. Not listed

10. Problem 6.2.64. Find the marginal productivity of labor.

- A. 6.7 units per unit increase in labor expenditure.
- B. 13.7 units per unit increase in labor expenditure.
- C. 27.7 units per unit increase in labor expenditure.
- D. 32.0 units per unit increase in labor expenditure.
- E. Not listed