

Quiz 6

Name:

ID #:

Section: 3

Serial #:

1. The weekly cost, $C(x, y)$, for producing x tables and y beds is given by

$$C(x, y) = 3x^2 - 2xy + y^2 - 8y + 1000$$

What is the number of tables and beds that minimizes the cost??

2. What are the local extrema of $z = f(x, y) = x^2 - 2xy + y + 3$?

Quiz 6

Name:

ID #:

Section: 1

Serial #:

1. The weekly cost, $C(x, y)$, for producing x tables and y beds is given by

$$C(x, y) = 2x^2 - 2xy + y^2 - 8y + 1000$$

What is the number of tables and beds that minimizes the cost?

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2. What are the local extrema of $z = f(x, y) = (y^2 - 4)(e^x - 1)$?