Homework 0

Data 440

Math Problems

1. G(x) = - + 24x -30

Since g(x) is concave down then g’(x) = 0 will maximize g(x)

G’(x) = -6x+24

0 = -6x +24

**X = 4**

1. For x0 treat x1 as constant and vice versa

F’() =

f’() = -4 + 4

1. A. No because the columns of matrix A has to equal the rows of Matrix B. ex( a 3 x2 Matrix can multiply a 2x3 matrix but not a 3x2 matrix)

B. Rank 2

C. …

1. Gaussian 🡪

Multivariate Gaussian 🡪 I have it written in pencil but it is way to long to type

Bernoulli 🡪

Binomial 🡪

1. A binomial equation is a Bernoulli equation for with range of 0 to 1
2. Rewrite into an integral

F(x) =

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F(x) =

F(x) =

1. No idea
2. A.

0 -

-

0 + 1

1

b.

0 + (-y-1)

(--1) - (--1)

0 – (-1)

1

c.

(-1)

0 – (0-1)

-(-1)

1

d.

(-y-1)

(--1) - (--1)

0 – (-11)

11