

Name: _____
SID #: _____

ECON 140 - QUIZZ # 1

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This is **NOT** a graded quizz... This is only intended for me to assess the overall level of the section and adapt my teaching to the average level of you all. This will not influence your final grade. You have 20 minutes.

1 Analysis

(1) Let f be the following function: $f(x) = -x^2 + 3x + 4$. What is $f'(x)$?

(2) Find the value α for $f(x)$ is maximized and compute the maximum.

(3) What is the integral $G = \int_0^1 (x^2 + 3x) dx$?

2 Probabilities

(A) You have a regular dice. Let X be the random variable equal to the outcome of throwing the dice once.

(1) What is the probability $P(X=3)$?

(2) What is the probability $P(X \leq 3)$?

(3) What is the mean of X : $E(X)$?

(4) What is the variance of X : $V(X)$?