**King Fahd University of Petroleum & Minerals**

**Serial #0**

- 1 points for not writing your serial number

Electrical Engineering Department

EE315: Probabilistic Methods in Electrical Engineering (112)

**Quiz 4: Operation on One Random Variable- Expectation**

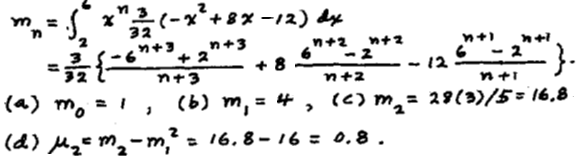
Name: Key (Solution)

A random variable *X* has the density

Find the following moments:

1. Mean
2. & d) If the second moment find the variance=?

In general



Good Luck, **Dr. Ali Muqaibel**