

**QUESTION FOR MATH 343 FOR THE LECTURE OF
23 APRIL**

To do this quickly, you might want a calculator.

This is a slight modification of the problem as announced on Wednesday.

Problem 1. The probability mass function for the random variable X is given as follows:

x	$f_X(x)$	$(x - \mu)^2$	$(x - \mu)^2 f_X(x)$
0	$\frac{27}{64}$		
4	$\frac{27}{64}$		
8	$\frac{9}{64}$		
12	$\frac{1}{64}$		

Fill in the blank spaces in the table, and use this to find the variance and standard deviation.

To save work, I am telling you ahead of time that $E(X) = 3$.