Name:

MATH 321: In-Class 0

1. Let X have the following pmf:

x	0	1	2	3
f(x)	0.3	0.15	0.24	0.31

(a) Find P(X < 2).

(b) Find E(X).

(c) Find V(X).

(d) Find E[(X+3)(X-1)]

- 2. Let X have the following pdf:
- $f(x) = cx^2$, for 0 < x < 1.
- (a) Find c so that f(x) is a valid pdf.

(b) Find P(0.25 < X < 0.55).

(c) Find $E(X^2 + \sqrt{X})$.