



c must equal 1/2 in order forme PDF to intigrate to 1.

b) 
$$0^{th}$$
 moment  $\rightarrow$  mean  $\rightarrow 0$  (equally distributed about 0)  
 $1^{sr}$  moment  $\rightarrow$  variance  $\rightarrow$  stdev=1.5  $\rightarrow$  variance =  $(1.5)^2$   
= stdev<sup>2</sup>