(a) IS fAPDF?

(b) FIMD E(+), E(+2).

(c) USE TWO DIFFERENT METHODS TO FIND Var(x).

(d) FIND A FAST WAY TO CALCULATE E(x), Var (x).

2. FOR A BINOMIAL DISTATBUTION WITH n=3, PROVE E(+)=np.

3. LET X HAVE GEOMETRIE DISTRIBUTION WITH P = 4.

(a) FIM P(1), P(2), P(3) AM F(3).

(b) FTM P(x > u).

4. THE AREA OF NSW IS 801150Km² AND ABOUT 10000 BUSH
FERRES OCCUP HERE PERYCAIR. IN A RAMOUNTY SELECTED

[OLLM² AREA, WHAT IS THE PROBABILITY OF

(a) | FERRE AND (b) 2 FERRES HAPPENING THERE THIS YEAR?

5. DEFINE $f(x) = \int_{-x^2+b}^{-x^2+b} -\sqrt{b} \leq x \leq \sqrt{b}$ $0, \in \text{USE}.$

WHAT DOES & HAVE TO BE ENORDER FOR F TO BE A POF?