$$EX = M = 1 \qquad \text{ANS} \qquad ES = \sigma^2 = 1$$

$$(\text{for Poisson})$$
But wr(X) = $\frac{1}{2} = \frac{1}{2}$

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$$P(X) = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

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$$\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

$$\text{Add We chat powcoder}$$

$$\frac{1}{2} = \frac{1}{2} = \frac{1$$

QUESTION (b):
$$E(XX+(I-X)CS)$$

$$= XEX+(I-X)ECS$$

$$= XH+(I-X)H=G. (ABIASED.)$$

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$$= XH+(I-X)CS$$
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$$= XH+(I-X)CS$$

Exication (c):

$$X_1, -1, X_1$$
 (i) $d F(x, b)$
 $E(x) = n E$

PROPERTION (d):
$$Ex = P$$

When $Ex = P$

We $ex = P$

We $ex = P$

When $ex = P$

We $ex = P$

When $ex = P$

The $ex = P$

$$\frac{\partial UESTION}{\partial (i)} = \left(\frac{\sum x_r}{n-1}\right)^{n-1}$$

$$\begin{aligned}
& = \frac{1}{(n-1)^{2}} \left\{ (n-1) \left(p(1-p) + p^{2} + (n-1)(n-2) p^{2} \right) \\
& = \frac{1}{(n-1)^{2}} \left\{ p(1-p) + p^{2} + (n-2) p^{2} \right\} \\
& = \frac{1}{n-1} \left\{ p(1-p) + p^{2} + (n-2) p^{2} \right\}
\end{aligned}$$

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$$= n \vec{p} - \vec{p} + \vec{p} + \vec{p} - \vec{p} - \vec{p} - \vec{p} + 2\vec{p} = \vec{p}^{2}.$$

THE METHOD REMOVES ALL THE BIAS AND ON IS NOW UNBIASED ESTIMATOR OF D.

PROPERTION (f) (a). Let Eô = K(0) (-- (6 f(x1) -- f(x1) dx1 -- dxn = K(0) TAKE DAZIMITIVE WRIT O ON BOTH SIDEP. Service of the servic LET Q = AdoleweChat powcodes = nIlo) THEN E Ó Q = 4/6) $cov(\hat{o}, \alpha)$ COR (0,Q) 1 ma (é) ma (a) $(E\hat{\theta}Q - (E\hat{\theta})(EQ)) \leq 1 \rightarrow VAR(\hat{\theta}) > VAR(\hat{\theta}) >$ MAR(Q) MAR(Q) IF EÓ=0 THEN MAC(Ô) >, N

THRRAPORT B= X 19 EFFICIENT OF B