E x is RV "/ E(x)=3 and SD(x) = 2.

Æ

Tor F (justily) P(x240) 5/2

$$(x^{2}) = Var(x) + E(x^{2}) = 4 + 9 = 13$$

$$P(x^{2}) = 4 + 9 = 13$$

You may also try the with Chebyslev:
$$P(x^2 \ge 40) = P(x \ge 140) = P(x-3 \ge 140-3)$$
Picture
$$K. \sigma$$

Chebyshow 8 hves
$$P(X-3 = 1.66(2)) \leq (\frac{1}{1.66})^2 = \frac{1}{2.75}$$

50 Chebyster doesn't show it is less than & bus Markov does



