Name: - Abdullah al Tarnim.

ID: - 2020-1-60-127

Final enam script

1 Given,

=)
$$P\left[\frac{7}{2} < \frac{2}{2}\right] = P\left[\frac{7}{2} < -1.34\right]$$

$$=$$
) $\frac{2}{2} = -1.3.4$ $\therefore 1 = 7.32$

.: Random numbers that follow Normal distribution

Morres - Abdallan of Tamina b) Sion-5)43 dn EST-09-1-0505 -: () = $(10-2) \times \frac{1}{n} \sum_{i=1}^{\infty} f(2+(10-2) \times V_i)$ $\frac{280}{5} \times \frac{5}{5} \left((2+8)i - 5 \right) + 3 = \frac{8}{5} \times \frac{5}{5} 640i - 480i + 12$ $V_1 = 0.09$, $I_1 = \frac{8}{5} ((218 \times 0.09) - 5)^{1/2} = 3 \times 11.32$ VI=0.09 =, II= 8 (64×0.09-48×0.09+12)=1312 Vé = 0.23, I2= 6.95 Vg = 0.49, I3 = 6.15 Uq = 0.88, Iq = 30.91 Vs 20.31, Is 25.23 i. I = Σ I = 62.37

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

b) Here,

$$T_0 + T_1 + T_2 = 1$$
 $T_0 = 0.3 T_0 + 0.1 T_1 + 0.99 T_2$
 $T_1 = 0.2 T_0 + 0.6 T_1 + 0.4 T_2$

Equation & equ () and putting in () and ()

Now, equation 3 and 6:

Now, putling in O:

Here, 0.43 < UCL and 0.14 + LCL So the point 13 indicate an out of control condition. 9 al Here, mean = 04 : $\lambda = \frac{1}{40} = 0.25$ P[XC] = $\int_{0.25}^{1} e^{-0.25y} dy = 0.2212$ On 22.12% of policies will they have to pay a chim.

b) P[X = 0.2 = 0.2] $\int_{0.25}^{0.25} e^{-0.28n} dn = 0.2$ $\therefore a = 0.89257$ year

their warnerty periond should be 0.8925you

Mann Color Tool Tool All Doll Affect

to the grown is indicate and it of

- mostifice last 100