IPRAM

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ESTADÍSTICA

Tarea #6

04/06/2021

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04/06/21

Calcule momento de orden K=2 hasta K=5 mas SK, coeficiente B1 y B2 y validezca el tipo de curtosis

Puntos obtenidos en Economía.

X	F	FX	d=X	$(X-\bar{X})^2$	$F(X-\bar{X})^2$	$(X-\bar{X})^3$	$F(X-\bar{X})^3$
60	3	180	-21.67	469.59	1,408.77	-10,175.99	-30,527.97
70	5	350	-11.67	136.19	680.95	-1,589.32	-7,946.60
80	15	1,200	-1.67	2.79	41.85	-4.66	-69.90
90	9	810	8.33	69.39	624.51	578.01	5,202.09
100	4	400	18.33	335.99	1,343.96	6,158.68	24,634.72
	36	2940			4,100.04		-8,707.66

$(X-\bar{X})^4$	$F(X-\bar{X})^4$	$(X-\bar{X})^5$	$F(X-\bar{X})^5$
220,513.74	661,541.22	-4,779,572.04	-14,338,527.92
1,354.42	92,737.10	-216,448.35	-1,082,241.75
7.78	116.70	-12.99	-194.85
4,424.23	43,333.38	40,107.45	360,967.05
112,883.54	451,534.16	2,009,246.96	8,276,987.84
	1,249,282.56		-6,780,079.163

$\bar{X} = \frac{2940}{36} = 81.67$

$\mu 2 = \frac{4100.04}{36} = 113.89$ $\quad \mu 3 = \frac{-8,707.166}{36} = -241.88$ $\quad \mu 4 = \frac{1,249,282.56}{36} = 34,702.29$

$\mu 5 = \frac{-6,780,079.163}{36} = -188,335.55$

$B1 = \frac{\mu 3^2}{\mu 2^3}$ $\quad B1 = \frac{-241.88^2}{113.89^3} = \frac{58,505.93}{1477,259.46} = 0.04$ $\quad B2 = \frac{\mu 4}{\mu 2^2}$ $\quad B2 = \frac{34,702.29}{113.89^2} = \frac{34,702.29}{12,970.43} = 2.68$

PLATICÚRTICA