

Zadania ze statystyki dla chemii

Zad.1.

2	xs=	4
3	sx=	1
4	sxs=	0.333333
4		
4	alfa=	0.05
4	talfa=	1.859548
5	mi0=	3.4
5		
5	t=	1.8 abs(t)<talfa

Zad.2.

ni	xi	ni*xi	xi-xs	ni*(xi-xs)^2		
1	20	20	-2.5	6.25		xs= 22.5
3	21	63	-1.5	6.75		sx= 1.951331
5	22	110	-0.5	1.25		
2	23	46	0.5	0.5		alfa= 0.05
2	24	48	1.5	4.5		talfa/2= 2.160368
1	28	28	5.5	30.25		x= 28
14		315		49.5		t= 2.818589
						abs(t)>talfa/2

Zad.3.

xs=	3.8	talfa=	1.753051
sx=	0.4		
sxs=	0.1	t=	-2
n=	16		
alfa=	0.05	abs(t)>talfa	
mi0=	4		

Zad.4.

ni	xi	ni*xi	xi-xs	ni*(xi-xs)^2		
2	10	20	-2	8		xs= 12
4	11	44	-1	4		sx= 1.961161
5	12	60	0	0		
2	13	26	1	2		alfa= 0.05
1	18	18	6	36		talfa/2= 2.160368
14		168		50		x= 18
						t= 3.059412
						abs(t)>talfa/2

Zad.5.

563	xs=	570
565	sx=	4.189935
567	sxs=	1.324974
569		
570	alfa=	0.2
571	t alfa/2=	1.383029
572	t=	-1.67067 abs(t)>t alfa/2
572	t=	1.67067 abs(t)>t alfa/2
574		
577	xsd=	568.1675
	xsg=	571.8325

wynik 563 odrzucamy

wynik 577 odrzucamy

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Zad.6.

xs=	3.9	talfa=	1.710882
sx=	0.4		
sxs=	0.08	t=	-1.25
n=	25		
alfa=	0.05	abs(t)<talfa	
mi0=	4	nie są gorsi	

Zad.7.

ni	xi	ni*xi	xi-xs	ni*(xi-xs)^2		xs=	22.5
4	21	84	-1.5	9		sx=	1.454436
4	22	88	-0.5	1			
3	23	69	0.5	0.75	alfa=		0.05
2	24	48	1.5	4.5	talfa/2=		2.160368
1	26	26	3.5	12.25	x=		26
14		315		27.5	t=		2.406431
					abs(t)>talfa/2		
					odrzuć 26		

Zad.8.

100	xs=	98
97	sx=	3.041381
99	sxs=	1.013794
93		
96	alfa=	0.1
99	talfa/2=	1.859548
100	mi0=	100
95	t=	-1.972788
103		
	abs(t)>talfa/2	

Zad.9.

n=9	xs1=	12.5	xs2=	11
	sx1=	1.2	sx2=	0.9
	sxs1=	0.4	sxs2=	0.3
	s(sx1-2)=	0.5	df=	16
			alfa=	0.01
	t=	3	talfa/2=	2.920788
	abs(t)>talfa/2			

Zad.10.

xs=	99.2	alfa=	0.05
sx=	0.8	talfa/2=	2.364623
n=	8	t=	4.242641
sxs=	0.282843	abs(t)>talfa/2	
m0=	98		