

Wzory na granice kart kontrolnych

Uwaga: Oznaczenia jak na wykładzie

Karty $\bar{X} - R$			
Karta \bar{X}	$UCL = \bar{\bar{X}} + A_2 \bar{R}$ $CL = \bar{\bar{X}}$ $LCL = \bar{\bar{X}} - A_2 \bar{R}$	Karta R	$UCL = D_4 \bar{R}$ $CL = \bar{R}$ $LCL = D_3 \bar{R}$
Karty $\bar{X} - S$			
Karta \bar{X}	$UCL = \bar{\bar{X}} + A_3 \bar{S}$ $CL = \bar{\bar{X}}$ $LCL = \bar{\bar{X}} - A_3 \bar{S}$	Karta S	$UCL = B_4 \bar{S}$ $CL = \bar{S}$ $LCL = B_3 \bar{S}$
Karta MR			
	$UCL = \bar{X} + 3 \frac{\bar{MR}}{d_2}$ $CL = \bar{X}$ $LCL = \bar{X} - 3 \frac{\bar{MR}}{d_2}$		$UCL = D_4 \bar{MR}$ $CL = \bar{MR}$ $LCL = D_3 \bar{MR}$
Karta p			
	$UCL = p + 3 \sqrt{\frac{p(1-p)}{n}}$ $CL = p$ $LCL = p - 3 \sqrt{\frac{p(1-p)}{n}}$		
Karta np			
	$UCL = np + 3 \sqrt{np(1-p)}$ $CL = np$ $LCL = np - 3 \sqrt{np(1-p)}$		
Karta c			
	$UCL = c + 3 \sqrt{c}$ $CL = c$ $LCL = c - 3 \sqrt{c}$		
Karta u			
	$UCL = \bar{u} + 3 \sqrt{\frac{\bar{u}}{n}}$ $CL = \bar{u}$ $LCL = \bar{u} - 3 \sqrt{\frac{\bar{u}}{n}}$		